STR-DE635

SERVICE MANUAL

US Model
Canadian Model
AEP Model

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 Ω loads, both channels driven, from 20 – 20,000 Hz; rated 80 W per channel minimum RMS power, with no more than 0.09% toral harmonic distortion from 250 mW to rated output (USA model only).

Amplifier section

Stereo mode
- USA, Canadian models:
  (8Ω 20Hz – 20kHz, THD 0.09%)
  80W + 80W
- AEP model:
  (4Ω DIN, 1kHz)
  70W + 70W

Surround mode
- USA, Canadian models:
  (8Ω at 1kHz, THD 0.8%)
  Front: 80W + 80W
  Center[a]: 80W
  Rear[a]: 80W + 80W
- AEP model:
  (4Ω DIN, 1kHz)
  Front: 70W + 70W
  Center[a]: 70W
  Rear[a]: 70W + 70W

a) Depending on the sound field settings and the source, there may be no sound output.

Dynamic power output
- 145W + 145W, 8Ω
- 210W + 210W, 4Ω

Frequency response
- PHONO: RIAA equalization curve ±0.5 dB
- USA, Canadian models:
  CD, MD/TAPE, DVD/LD, TV/SAT, VIDEO1,2:
- AEP model:
  CD, MD/TAPE, DVD, TV/LD, VIDEO1,2:
  10Hz – 50kHz + 0.5/–2dB (with sound field, equalizer, and bass boost bypassed)

Inputs (Analog)
- PHONO:
  Sensitivity: 2.5mV
  Impedance: 50kΩ
  S/N[b]: 86dB (A, 2.5mV[c])
- USA, Canadian models:
  5.1CH INPUT, CD,DVD/LD,MD/TAPE,TV/SAT,VIDEO1,2:
- AEP model
  5.1CH INPUT, CD,DVD,MD/TAPE,TV/LD,VIDEO1,2:
  Sensitivity: 150mV
  Impedance: 50kΩ
  S/N[b]: 96dB (A, 150mV[c])

b) Input short
c) Weighted network, input level

— Continued on next page —

FM STEREO FM-AM RECEIVER

MICROFILM

SONY®

Inputs (Digital)	DVD/LD (coaxial): Sensitivity: – Impedance: 75Ω S/N: 100dB (A, 20kHz LPF) DVD/LD (Optical): Sensitivity: – Impedance: – S/N: 100dB (A, 20kHz LPF)
Outputs	MD/TAPE, (REC OUT); VIDEO1,2 (AUDIO OUT): Voltage: 150mV, Impedance: 10kΩ SUB WOOFER: Voltage:2V Impedance: 1kΩ PHONES: Accepts low-and high-impedance headphones
BASS BOOST	+6dB at 70Hz
Sampling Frequency	48kHz
EQ	BASS: 100Hz – 1.0kHz (21steps) MID: 500Hz – 5.0kHz (21steps) TABLE: 1.0kHz – 10kHz (21steps) Gain levels: ±10dB, 1dB step

FM tuner section

Tuning range	87.5 – 108.0MHz
Antenna terminals	75Ω, unbalanced
Sensitivity	Mono: 18.3dBf, 2.2µV/75Ω Stereo: 38.3dBf, 22.5µV/75Ω
Usable sensitivity	11.2dBf, 1µV/75Ω
S/N	Mono: 76dB Stereo: 70dB
Harmonic destortion at 1kHz	
	Mono: 0.3% Stereo: 0.5%
Separetion	45dB at 1kHz
Frequency response	30Hz – 15kHz + 0.5/–2dB
Selectivity	60dB at 400kHz

AM tuner section

Tuning range	USA, Canadian models: With 10-kHz tuning scale: 530 – 1,710kHz[d)] With 9-kHz tuning scale: 531 – 1,710kHz[d)] AEP model 531 – 1,602kHz
Antenna	Loop antenna
Usable sensitivity	50dB/m (at 1,000kHz or 999kHz)
S/N	54dB (at 50mV/m)
Harmonic destortion	0.5% (50mV/m, 400kHz)
Selectivity	At 9kHz: 35dB At 10kHz: 40dB

d) You can change the AM tuning scale to 9kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING+ button and press the I/⏻ button. All preset stations will be erased when you change the tuning scale. To reset the scale to 10kHz, repeat the procedure.

Video section

Inputs	1Vp-p 75Ω
Outputs	1Vp-p 75Ω

General

System	Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complementary SEPP
Power requirements	USA, Canadian models: 120V AC, 60Hz AEP model 230V AC, 50/60Hz
Power consumption	USA: 270W Canada: 285VA AEP: 200W
AC outlets	USA, Canadian models: 2switched, total 100W AEP model 1switched, max 100W
Dimensions	430 × 364 × 157.5mm (17 × 14 5/16 × 6 1/4 in.) including projecting parts and controls
Mass (Approx.)	USA, Canadian models: 9.5kg (20 lbs. 15 oz.) AEP model 10.1kg
Supplied accessories	FM wire antenna (1) AM loop antenna (1) Remote commander RM-PP402 (remote) (1) R6 (size-AA) batteries (2) FM antenna adapter (1)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

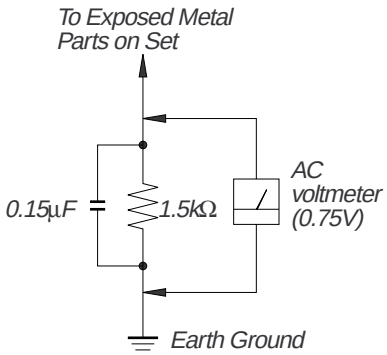

Fig. A. Using an AC voltmeter to check AC leakage.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

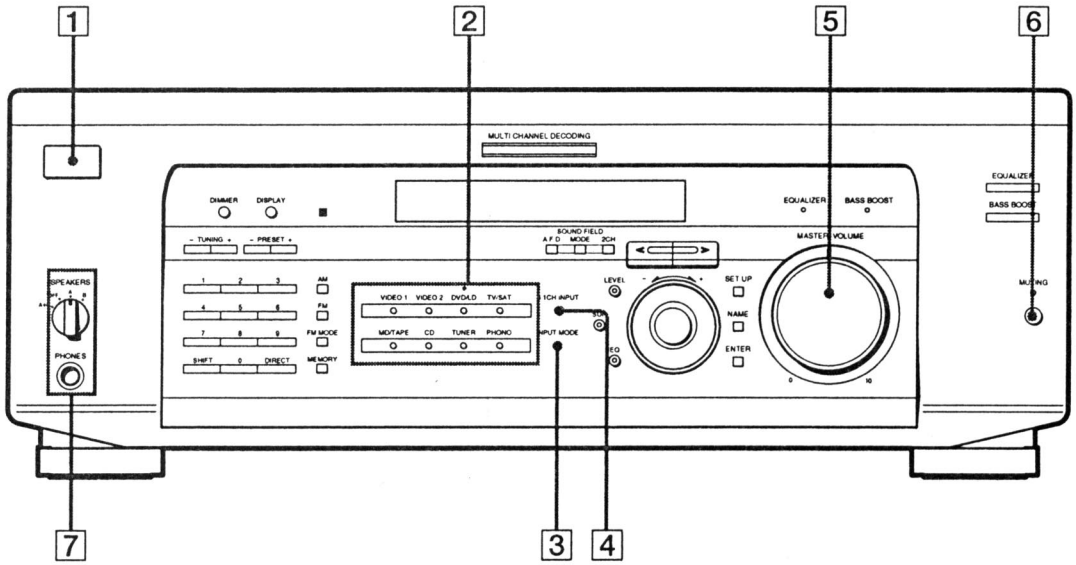
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

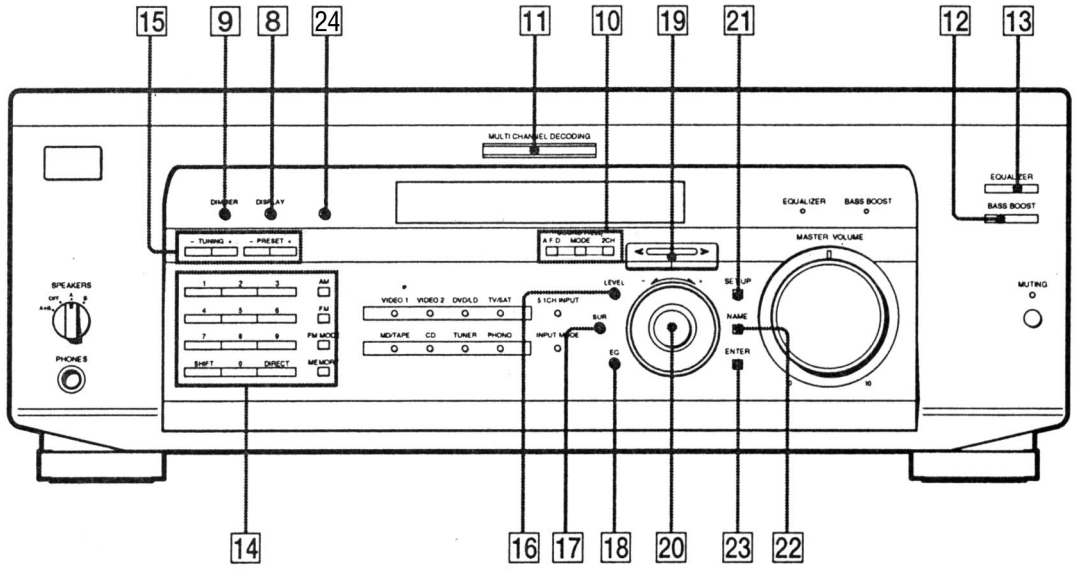
SECTION 1
GENERAL

Identifying the Parts

Front Pane^l

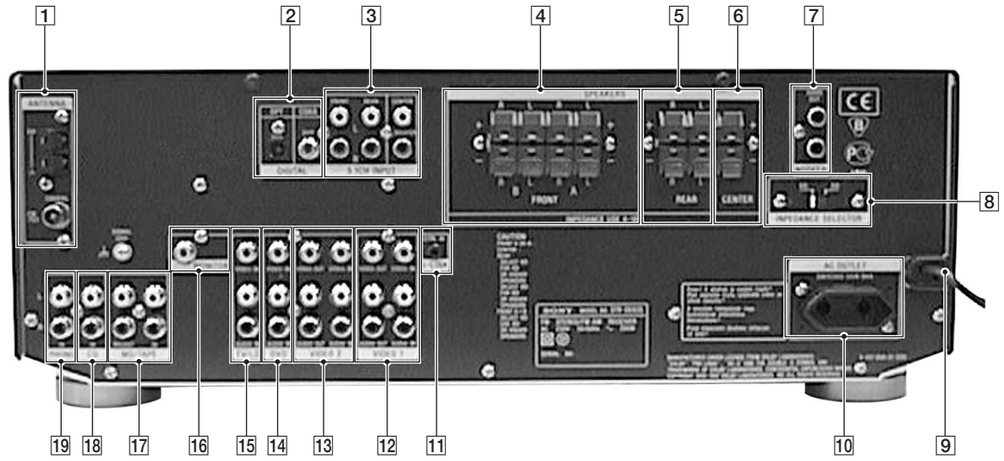


1 I/⏻ switch
2 Function buttons
3 INPUT MODE button
4 5.1CH INPUT button
5 MASTER VOLUME control
6 MUTING button
7 SPEAKERS selector
PHONES jack



8 DISPLAY button
9 DIMMER button
10 A.F.D button/indicator
MODE button/indicator
2CH button/indicator
11 MULTI CHANNEL DECODING indicator
12 BASS BOOST button
13 EQUALIZER button
14 DIRECT button
SHIFT button
Numeric buttons (0 to 9)
AM button (US, Canadian models)
RDS EON button (US, Canadian models)
FM button (US, Canadian models)
AM/FM button (AEP model)
FM MODE button
MEMORY button
15 TUNNIG +/- buttons
PRESET +/- buttons
16 LEVEL button
17 SUR button
18 EQ button
19 Cursor buttons(</>)
20 Jog dial
21 SET UP button
22 NAME button
23 ENTER button
24 RDS PTY button (AEP model)

Rear Panel



1	ANTENNA	11	S-LINK
2	DIGITAL	12	VIDEO 1
3	5.1 CH INPUT	13	VIDEO 2
4	SPEAKERS (FRONT)	14	DVD/LD (US, Canadian models) DVD (AEP model)
5	SPEAKERS (REAR)	15	TV/SAT (US, Canadian models) TV/LD (AEP model)
6	SPEAKERS (CENTER)	16	MONITOR
7	WOOFER	17	MD/TAPE
8	INPEDANCE SELECTOR	18	CD
9	AC power cord	19	PHONO
10	AC OUTLET		

SECTION 2
SERVICING NOTE

1. When the front panel is removed, the VR board is removed at the same time. Consequently the LEDs cannot be turned on and the sound volume cannot be increased or decreased from the remote control.

2. When servicing the DIGITAL board, be sure to connect the earth land of the DIGITAL board with the chassis frame so that the earth potential of the DIGITAL board must not be floated from the chassis frame.

SECTION 3
TEST MODE

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the ENTER, the LEVEL and the EQ buttons simultaneously, press the power [**I**/⏻] button to turn on the main power. All segments turn on at the same time, then each segment turns on press the ENTER button..

FACTORY SET MODE

* All preset contents are reset to the default setting.
* Procedure:

While depressing the SET UP, the LEVEL and the ENTER buttons simultaneously, press the power [**I**/⏻] button to turn on the main power. The message Factry Set appears and the present contents are reset to the default values.

ALL CLEAR MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SET UP button simultaneously, press the power [**I**/⏻] button to turn on the main power. The machine enters the DEMO mode.DEMO mode: Wait a while, then the demonstration starts. If the power [**I**/⏻] button is pressed often the demonstration has started, the power is turned off, and the demonstration resumes if the power [**I**/⏻] button is pressed again. ALL CLEAR mode; If the power [**I**/⏻] button is pressed often the machine enters the DEMO mode, but before the demonstration starts, the display is turned off. Press [**I**/⏻] again. No response is returned. The press [**I**/⏻] again. The preset data is cleared and the machine enters the normal power-on state.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SOUND FIELD MODE button, press the power [**I**/⏻] button to turn on the main power. The message S.F Initialize appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE (US, Canadian models)

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET TUNING + button, press the power [**I**/⏻] button to turn on the main power. Either the message AM 9kHz Step or AM 10kHz Step appears. Select the desired step.

DSP TEST MODE

* It tests whether the DSP works correctly or not. When the DSP test is activated, the test data is output from the DSP (IC1401: CXD2712R) of the DIGITAL board and is written in the RAM (IC1402: IDT71V016S). When the test data is read from the RAM by the DSP, the data output must be equivalent to the original data. If they disagree, an error is triggered. Errors can be caused by the broken data line or defective soldering.
* Procedure
  While pressing the SETUP, LEVEL and SUR buttons, press the POWER button to enter the DSP test mode. The message DSP TEST MODE appears. When an error occurs, the message DSP2 ERROR is displayed. When there is no error, the message DSP2 NO ERROR appears and the 1 kHz signal is output to all channels. Then, the mode can be switched the (SIGN WAVE) (THROUGH) and (INPULSE) mode.

AUTOBETICAL MODE (AEP Model only)

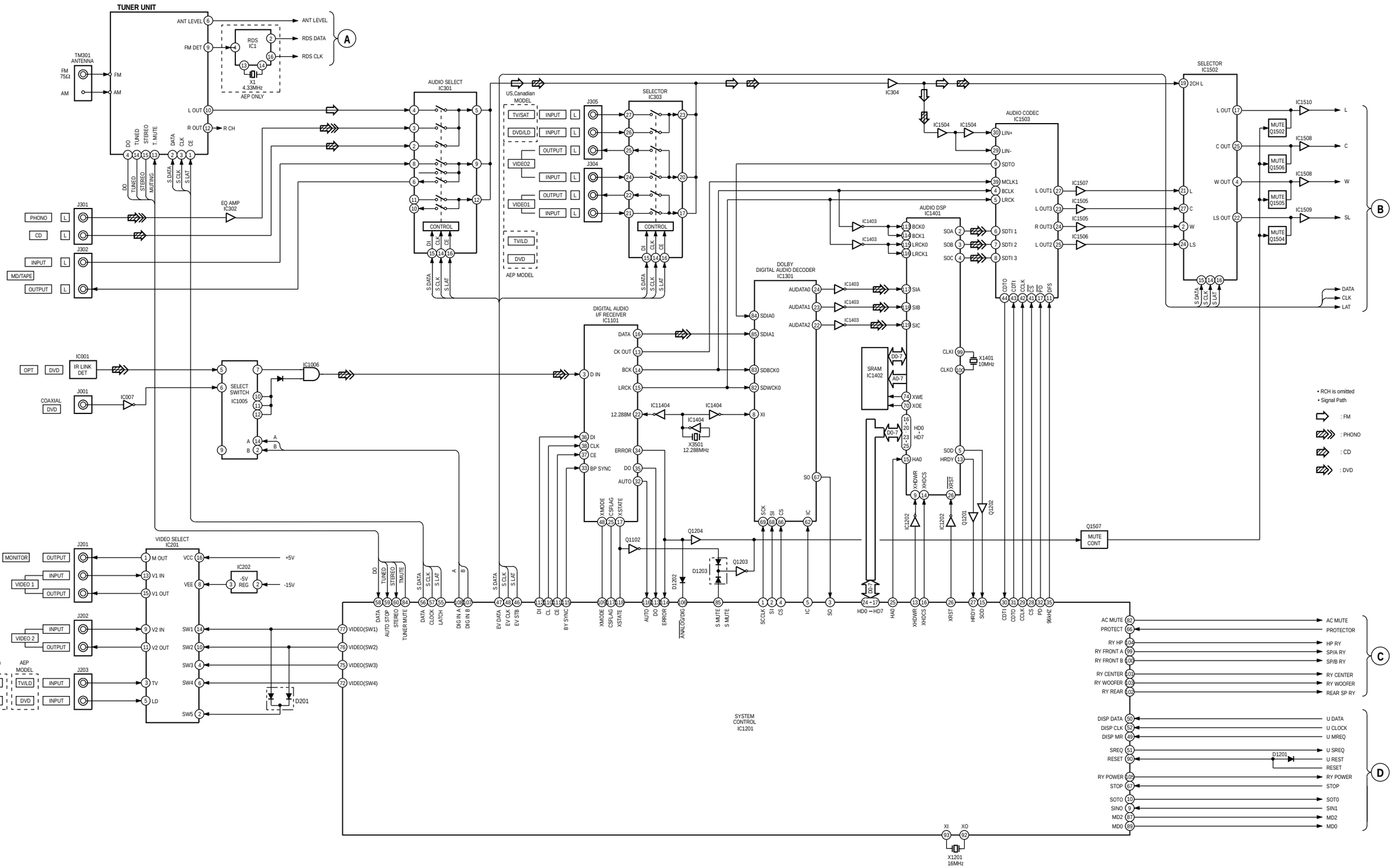
* This mode is installed in the Europe models only. When this mode is used, the receiver scans the broadcasts that can be received by tuner, and sets up the broadcasts. Be sure to start scanning after connecting the antenna.
  Procedure:
  Check that the antenna is connected. Press the POWER button while pressing the MEMORY button to turn on the power. The message “Autobetical select” appears and scanning starts by tuner.

VERSION MODE

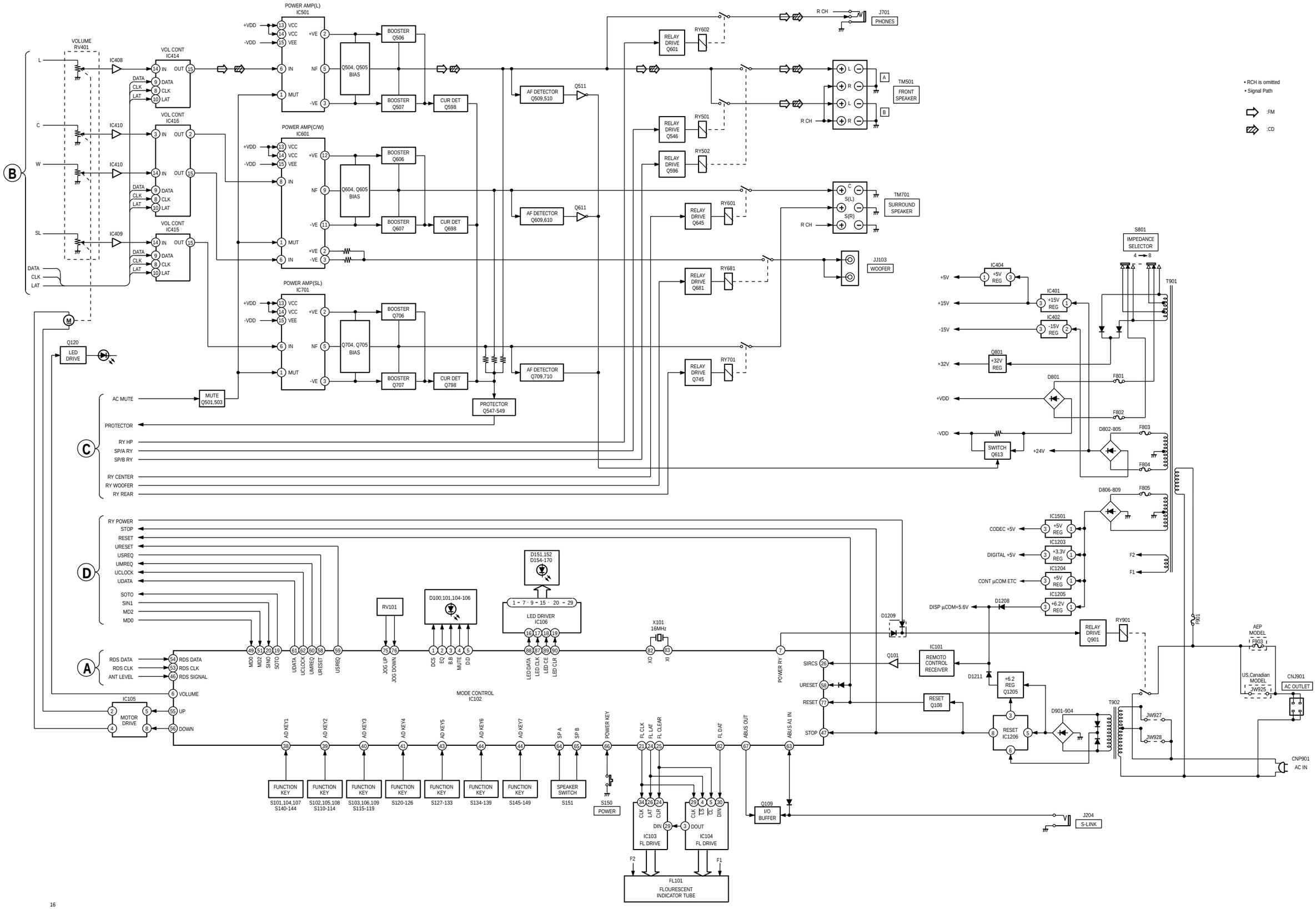
* When this mode is used, the microprocessor version number is displayed.
* Procedure:
  Press the POWER button while pressing the ENTER, LEVEL, and SUR buttons to turn on the power. The microprocessor version number appears as follows.

SECTION 4
DIAGRAMS

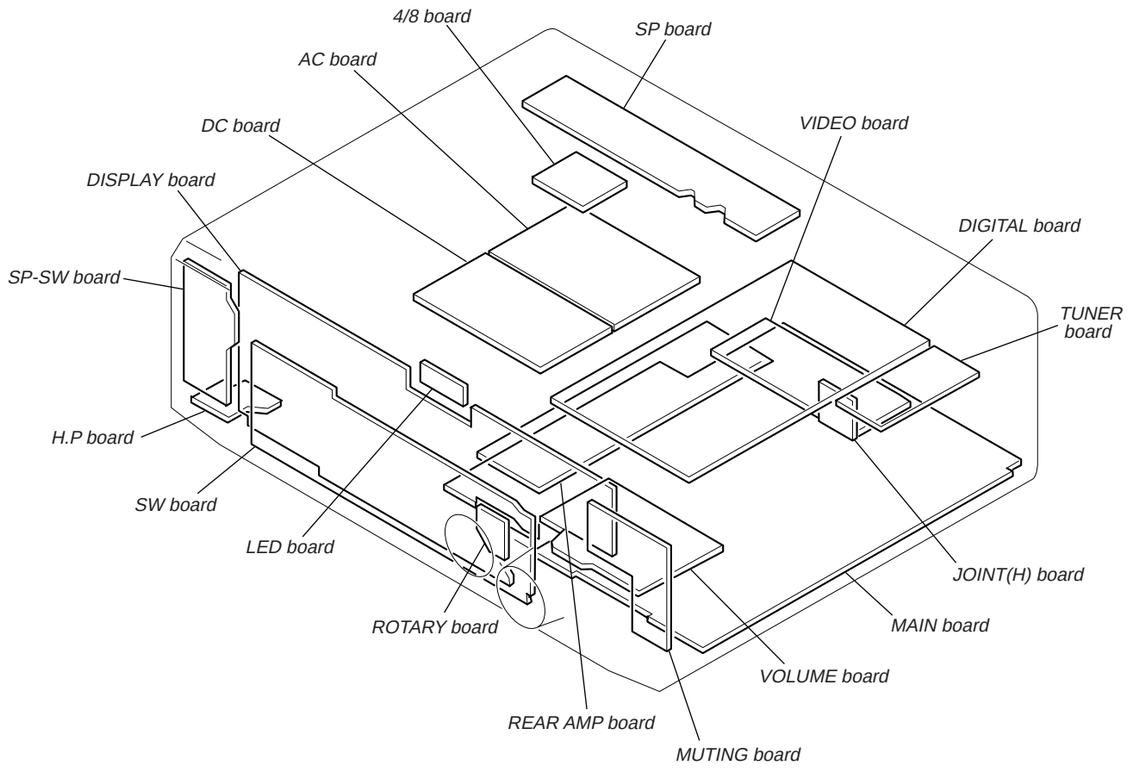
4-1. BLOCK DIAGRAM MAIN SECTION



4-2. BLOCK DIAGRAM POWER SECTION



4-3. CIRCUIT BOARD LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

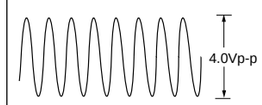
- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : CD
  : DIGITAL
  : PHONO
- Abbreviation
  CND :Canadian model

For printed wiring boards.
Note:

- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enables seeing.

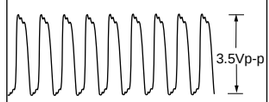
• Waveform
DIGITAL Board

① IC1201 ⑨② (XO)



4MHz

② IC1401 ⑩⓪ (CLKO)



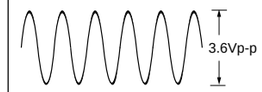
10MHz

③ IC1404 ②⑤

12.288MHz

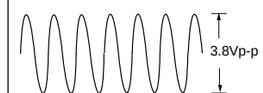
DISPLAY Board

④ IC102 ⑧② (XO)



16.0MHz

⑤ IC12 ⑯ (X OUT)



7.28MHz

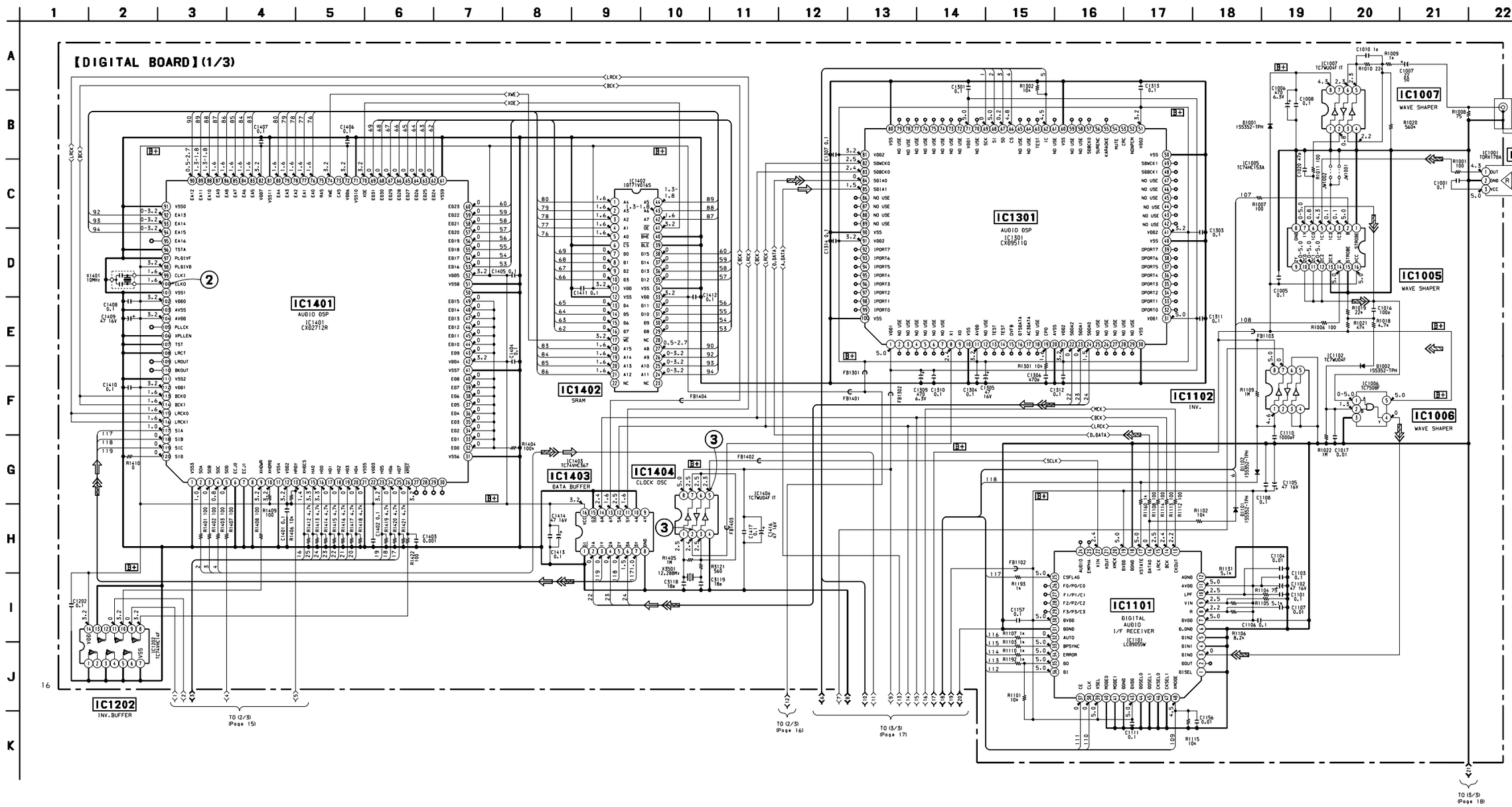
TUNER Board

⑥ IC1 ⑬ (X 1)

4.33MHz

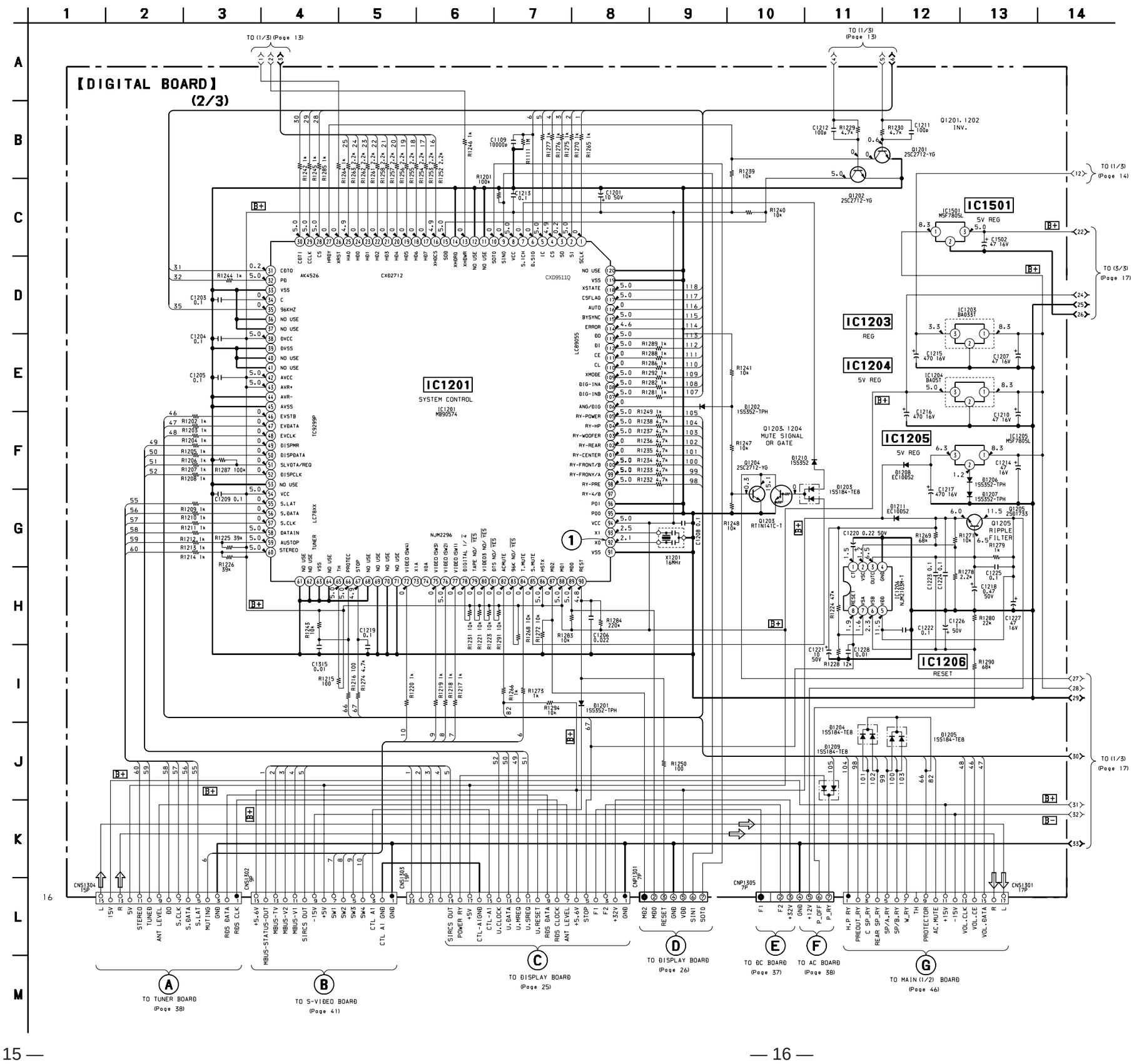
4-4. SCHEMATIC DIAGRAM DIGITAL SECTION(1/3)

• See page 19 for Printed Wiring Board. • See page 12 for Waveforms. • See page 49 for IC Pin Functions.



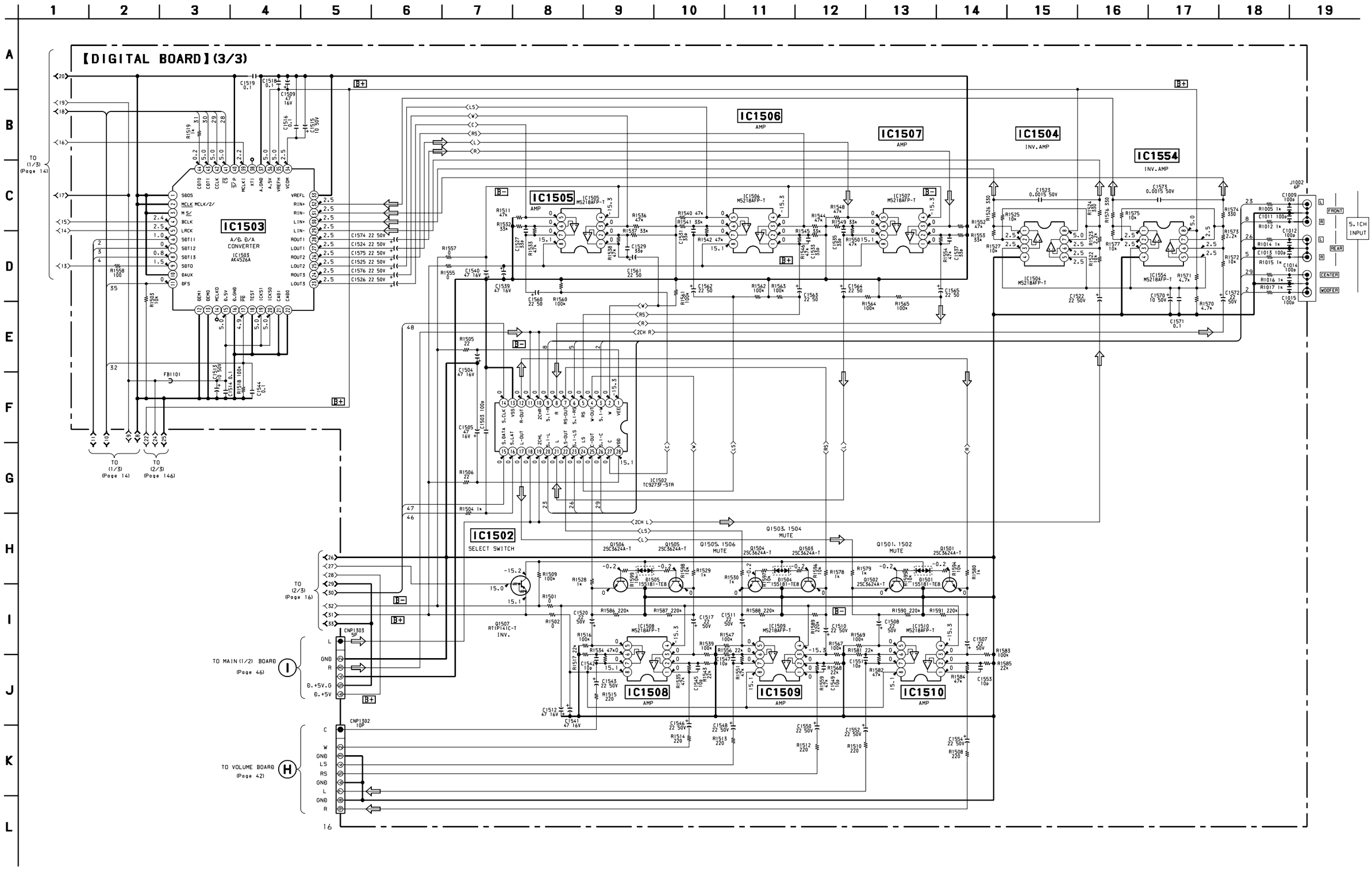
4-5. SCHEMATIC DIAGRAM DIGITAL SECTION(2/3)

• See page 19 for Printed Wiring Board. • See page 12 for Waveforms. • See page 51 for IC Pin Functions. • See page 60 for IC Block Diagrams.



4-6. SCHEMATIC DIAGRAM DIGITAL SECTION(3/3)

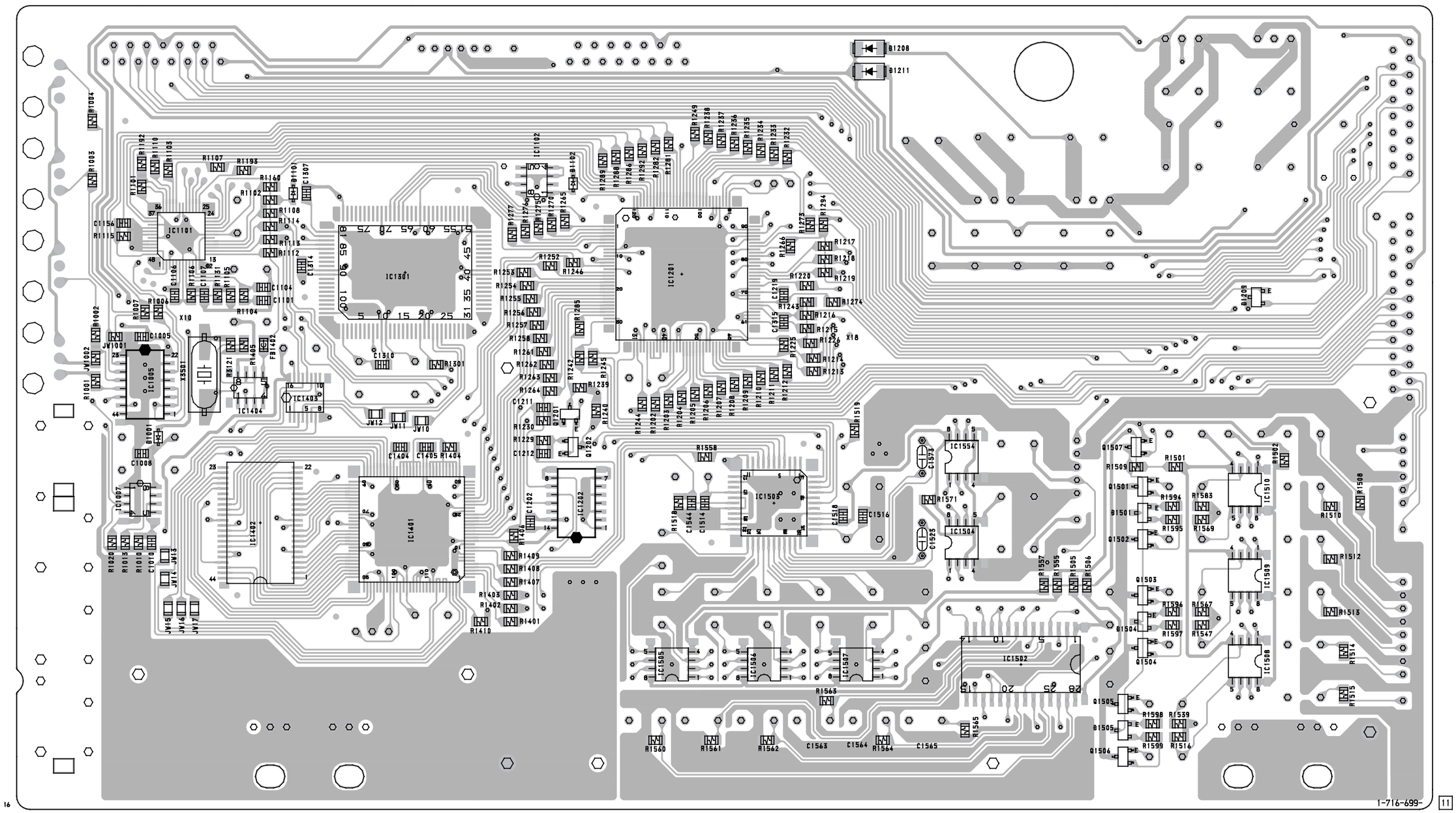
• See page 19 for Printed Wiring Board. • See page 54 for IC Pin Functions. • See page 60 for IC Block Diagrams.



4-7. PRINTED WIRING BOARD DIGITAL SECTION(1/2)

• See page 11 for Circuit Boards Location.

【DIGITAL BOARD】(SIDE A)

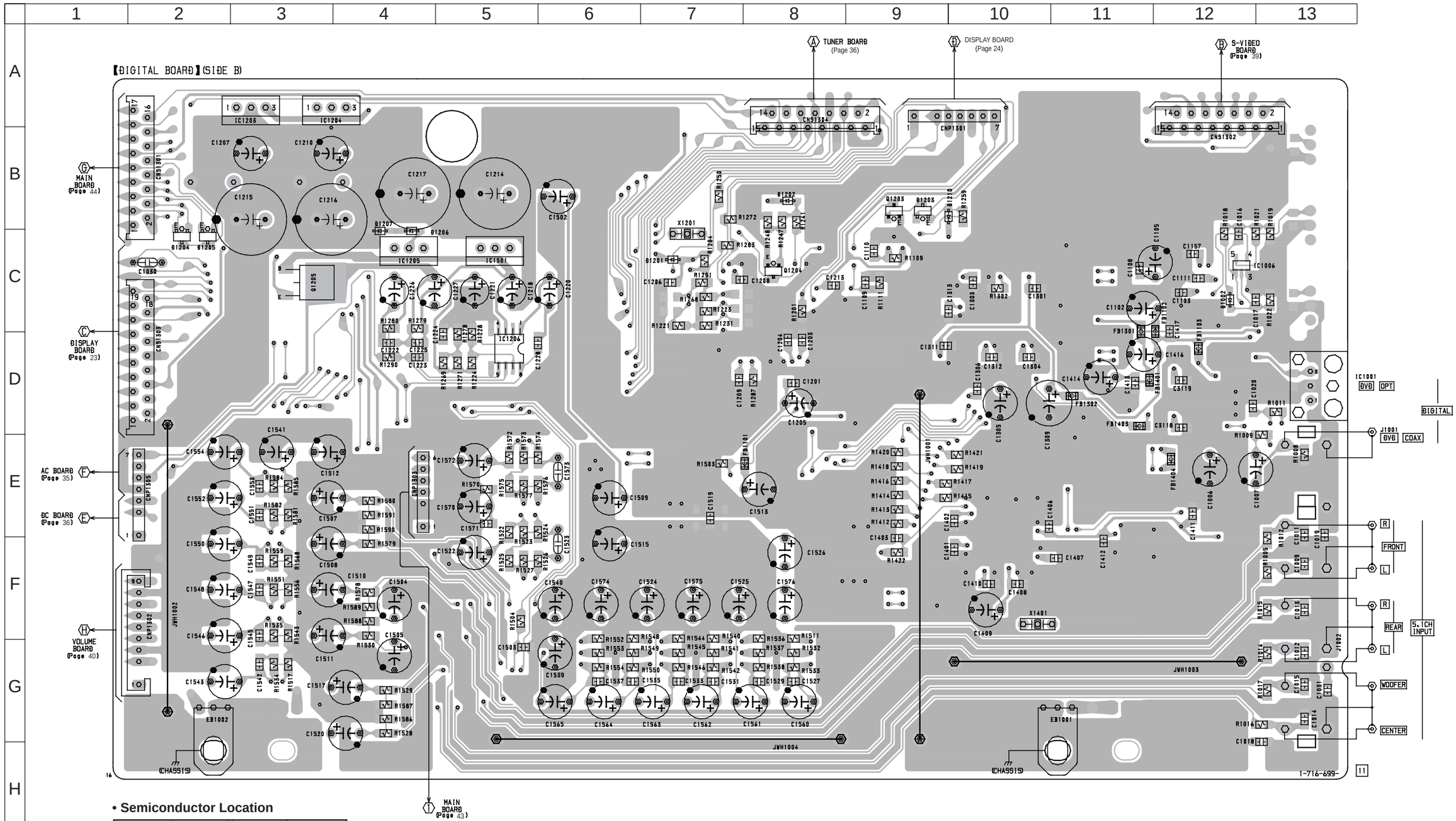


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1001	E-2	IC1007	E-2	IC1503	F-8	Q1202	E-6
D1101	C-3	IC1101	C-2	IC1504	F-10	Q1501	E-11
D1102	C-6	IC1102	C-6	IC1505	G-7	Q1502	F-11
D1208	A-9	IC1201	C-7	IC1506	G-8	Q1503	F-11
D1209	D-12	IC1202	F-6	IC1507	G-9	Q1504	G-11
D1211	A-9	IC1301	C-4	IC1508	G-12	Q1505	G-11
D1501	F-11	IC1401	F-5	IC1509	F-12	Q1506	H-11
D1504	G-11	IC1402	F-3	IC1510	E-12	Q1507	E-11
D1505	H-11	IC1403	E-3	IC1554	E-10		
		IC1404	D-3				
IC1005	D-2	IC1502	G-10	Q1201	E-6		

4-8. PRINTED WIRING BOARD DIGITAL SECTION(2/2)

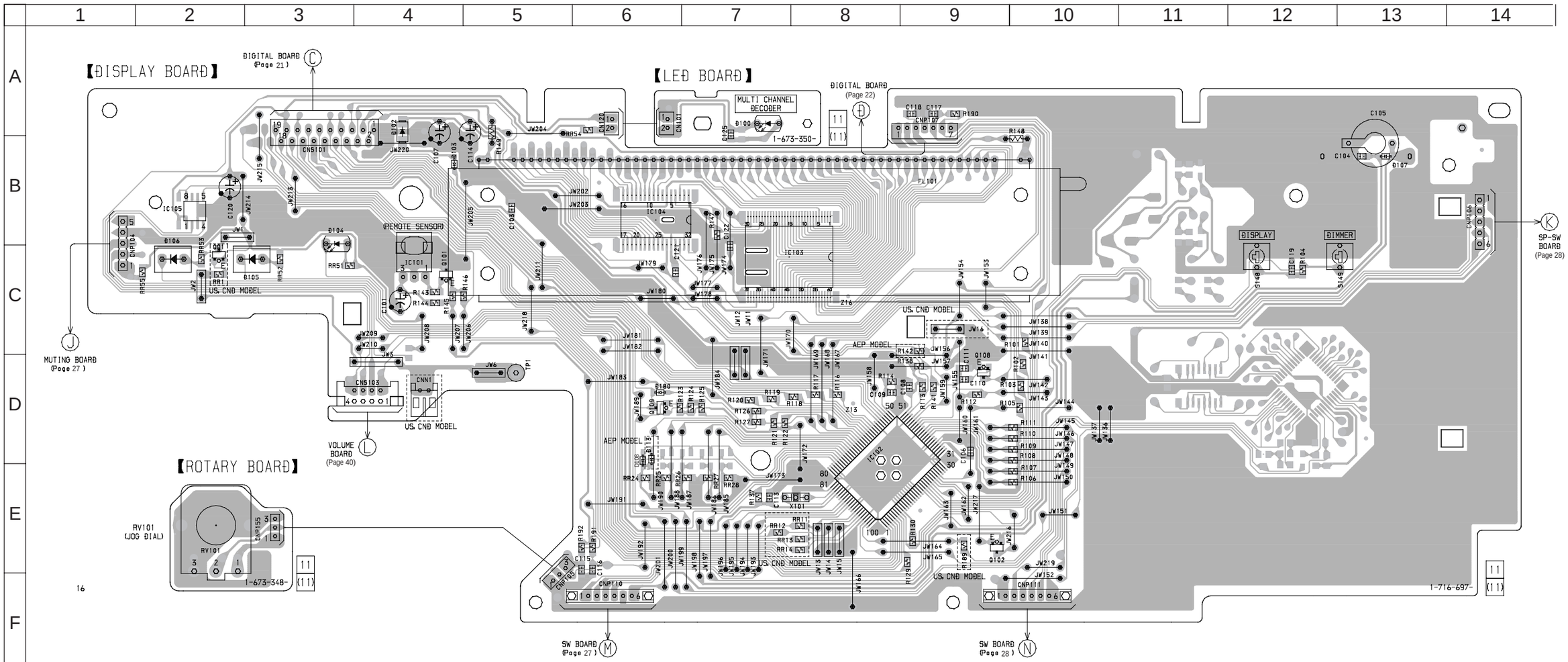
• See page 11 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1002	C-12	IC1006	C-12
D1201	C-7	IC1203	A-3
D1202	B-8	IC1204	A-3
D1203	B-9	IC1205	C-4
D1204	C-2	IC1206	D-5
D1205	C-2	IC1501	C-5
D1206	C-4		
D1207	C-4	Q1203	B-9
D1210	B-10	Q1204	C-8
		Q1205	C-3
IC1001	D-13		

4-9. PRINTED WIRING BOARD DISPLAY SECTION • See page 11 for Circuit Boards Location.

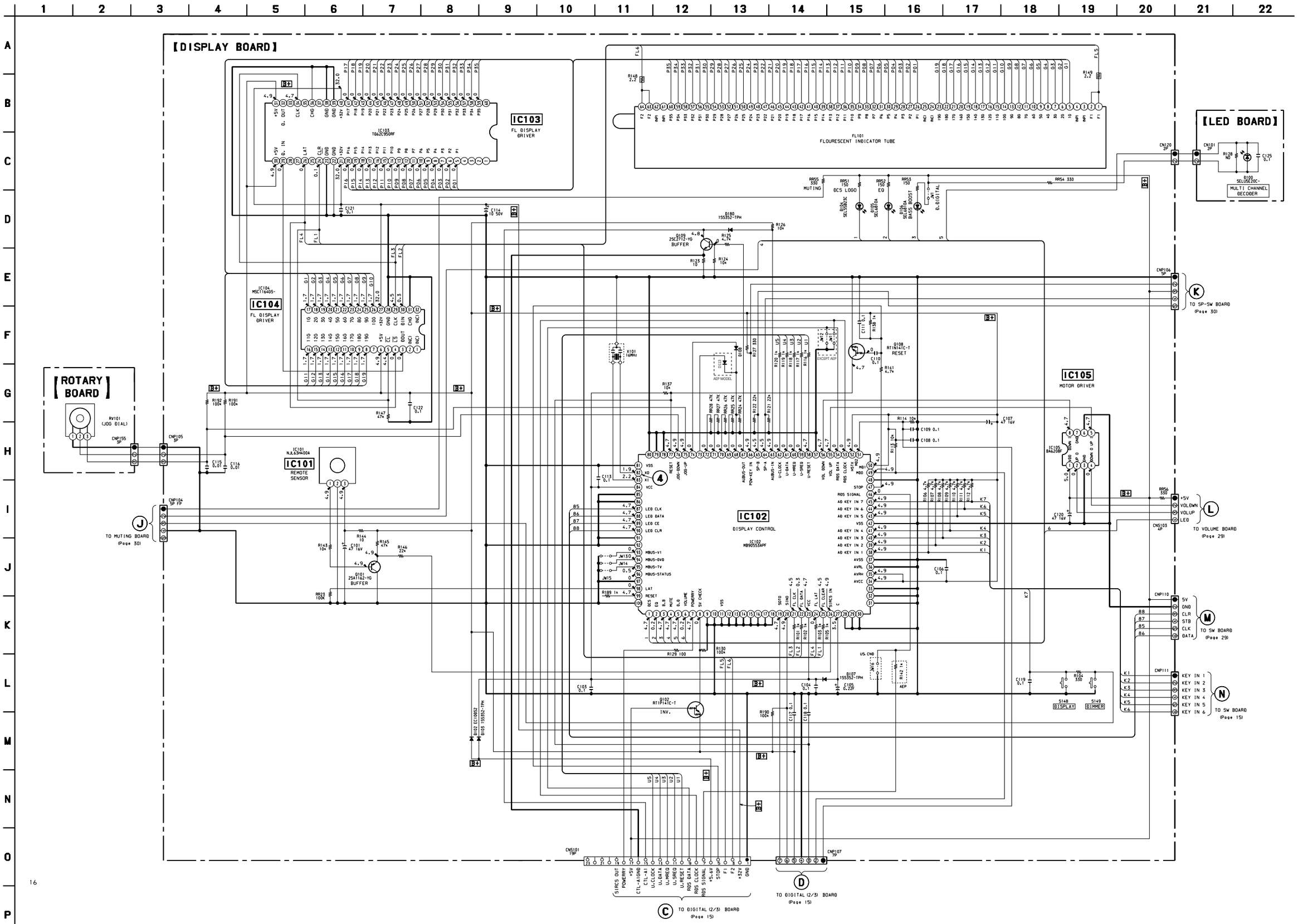


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D102	A-4	IC101	C-4
D103	B-4	IC102	E-8
D104	B-3	IC103	C-7
D105	C-3	IC104	B-6
D106	C-2	IC105	B-2
D107	B-13		
D108	D-6	Q101	C-4
D113	D-6	Q102	E-9
D180	D-6	Q108	D-9
		Q109	D-6
		QQ1	C-2

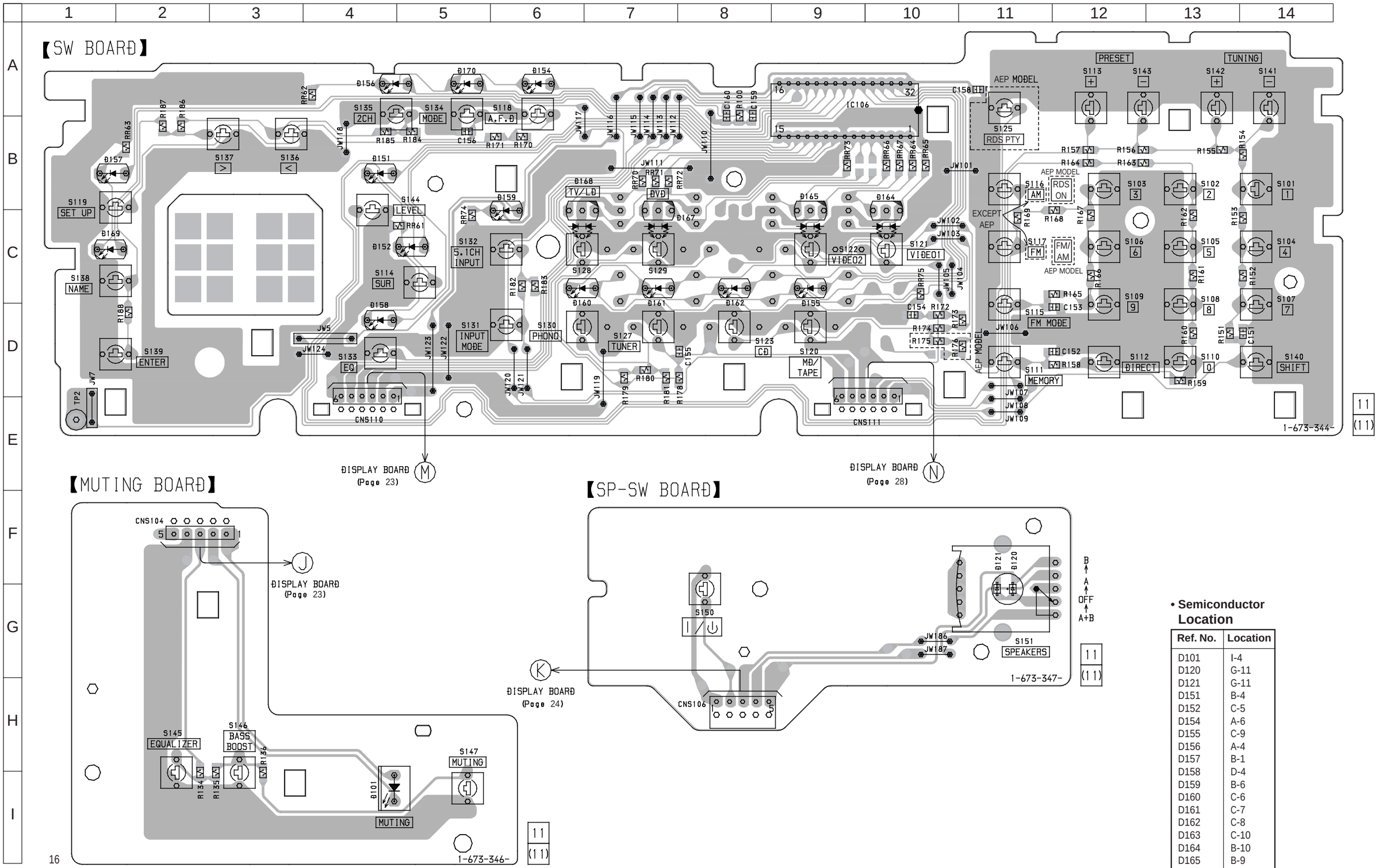
4-10. SCHEMATIC DIAGRAM DISPLAY SECTION

• See page 12 for Waveforms. • See page 56 for IC Pin Functions. • See page 59 for IC Block Diagrams.



4-11. PRINTED WIRING BOARD SURROUND SECTION

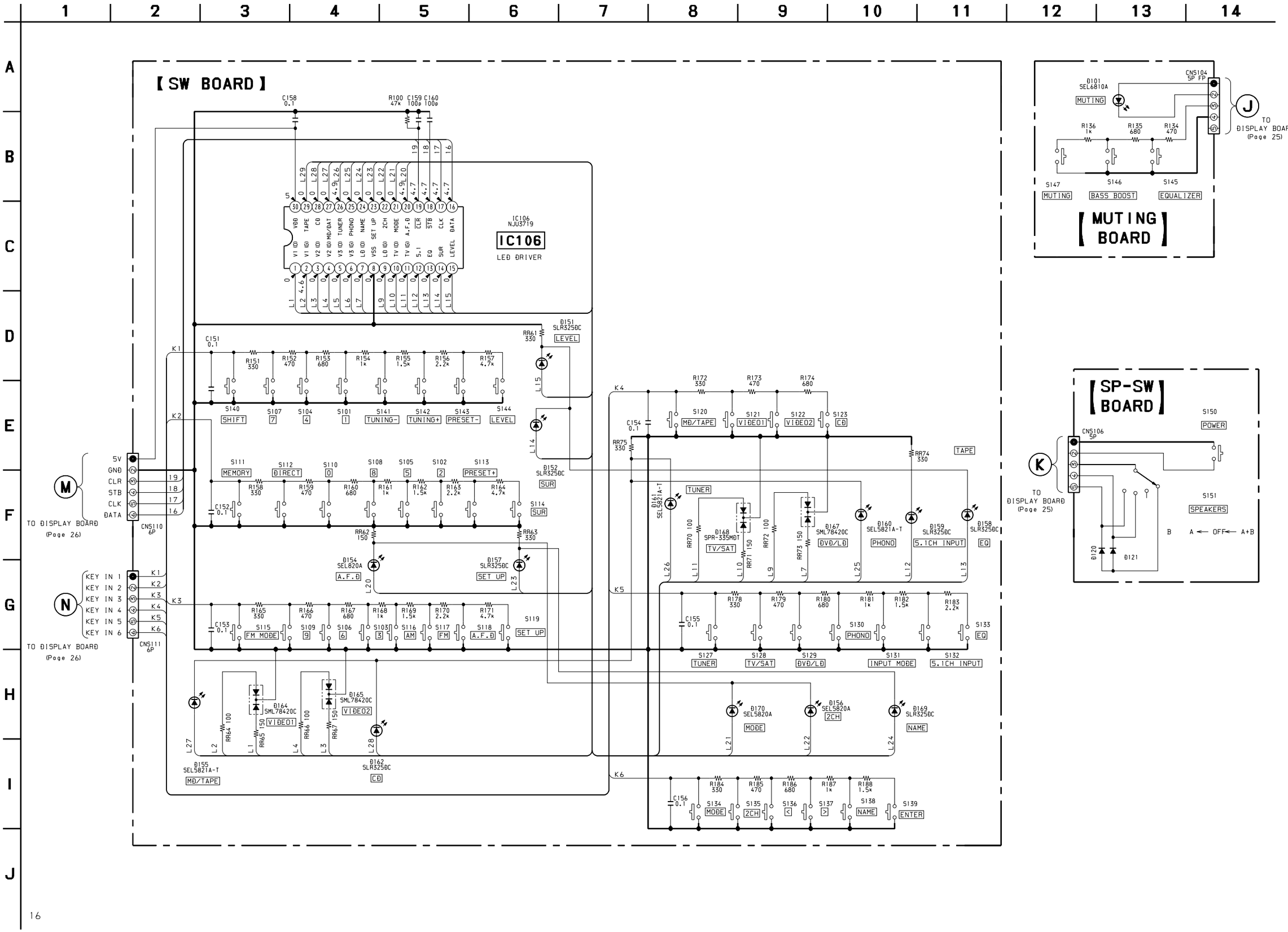
• See page 11 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D101	I-4
D120	G-11
D121	G-11
D151	B-4
D152	C-5
D154	A-6
D155	C-9
D156	A-4
D157	B-1
D158	D-4
D159	B-6
D160	C-6
D161	C-7
D162	C-8
D163	C-10
D164	B-10
D165	B-9
D166	B-8
D167	B-7
D168	B-6
D169	C-1
D170	A-5

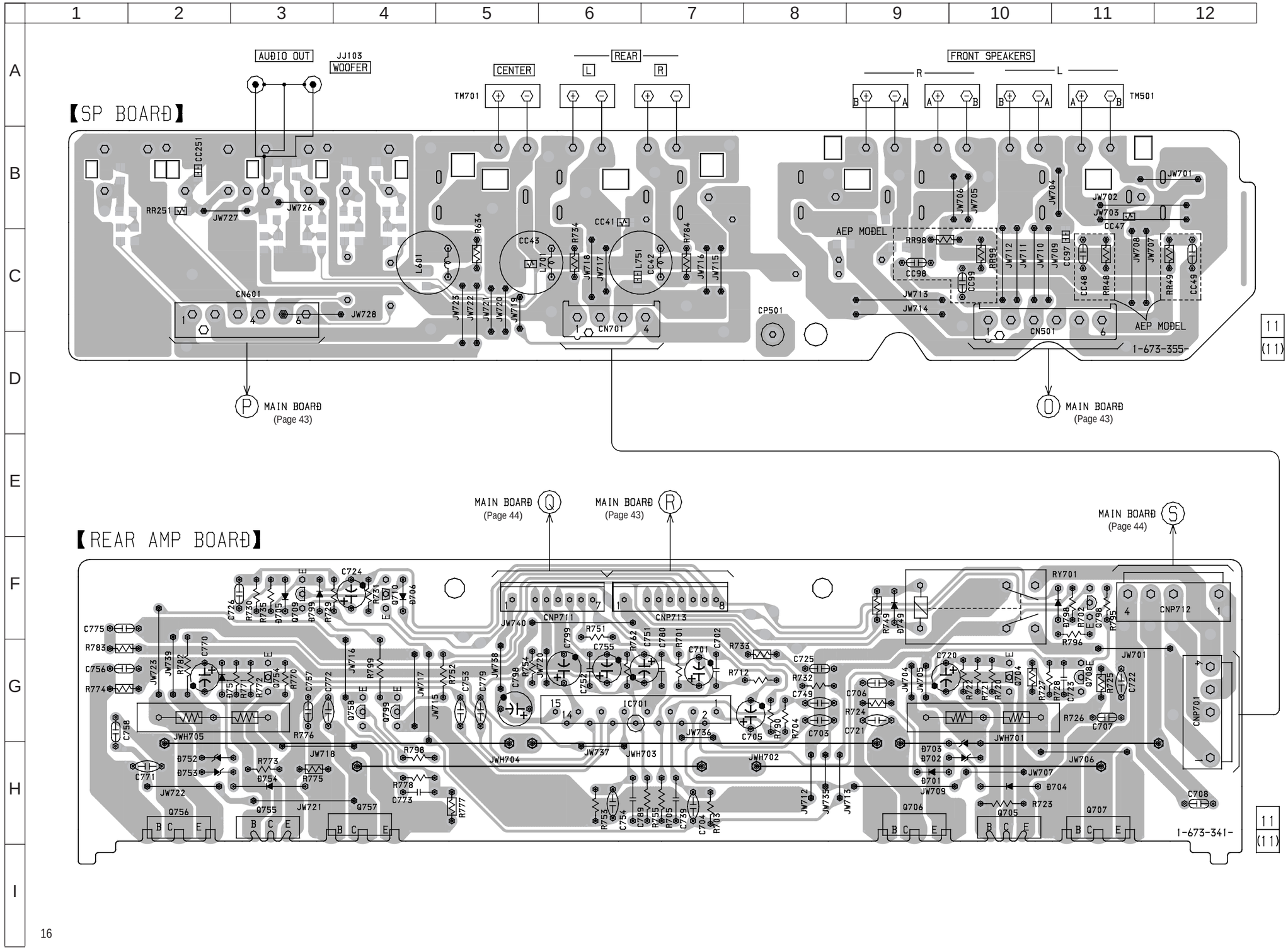
4-12. SCHEMATIC DIAGRAM SURROUND SECTION



4-13. PRINTED WIRING BOARD REAR AMP SECTION • See page 11 for Circuit Boards Location.

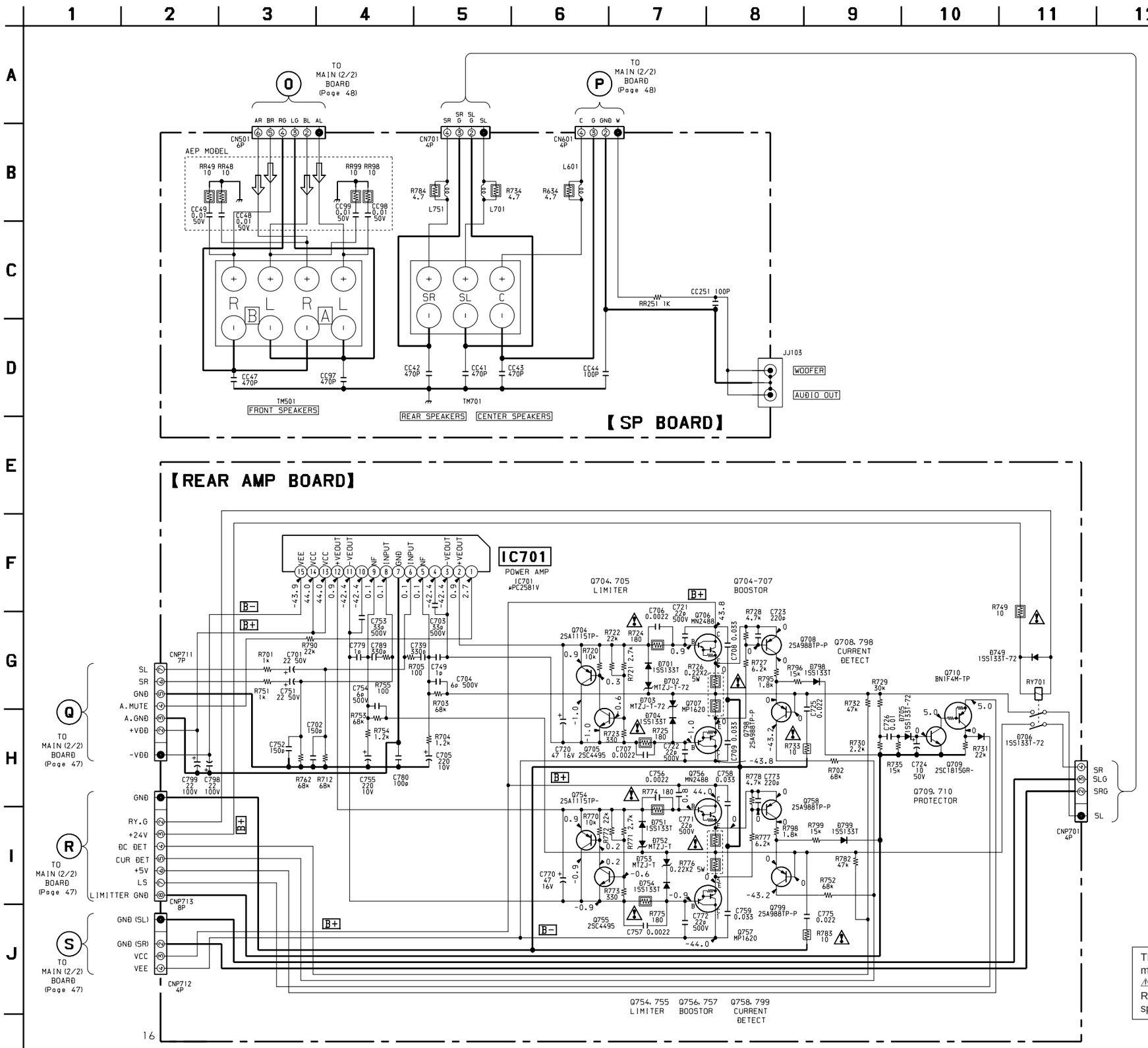
• **Semiconductor Location**

Ref. No.	Location
D701	H-9
D702	H-10
D703	H-10
D704	H-10
D705	F-3
D706	F-4
D749	F-9
D751	G-2
D752	H-2
D753	H-2
D754	H-3
D798	F-11
D799	F-3
IC701	G-6
Q704	G-10
Q705	H-10
Q706	H-9
Q707	H-11
Q708	G-11
Q709	F-3
Q710	F-4
Q754	G-3
Q755	H-3
Q756	H-2
Q757	H-4
Q758	G-4
Q798	F-11
Q799	G-4



4-14. SCHEMATIC DIAGRAM REAR AMP SECTION

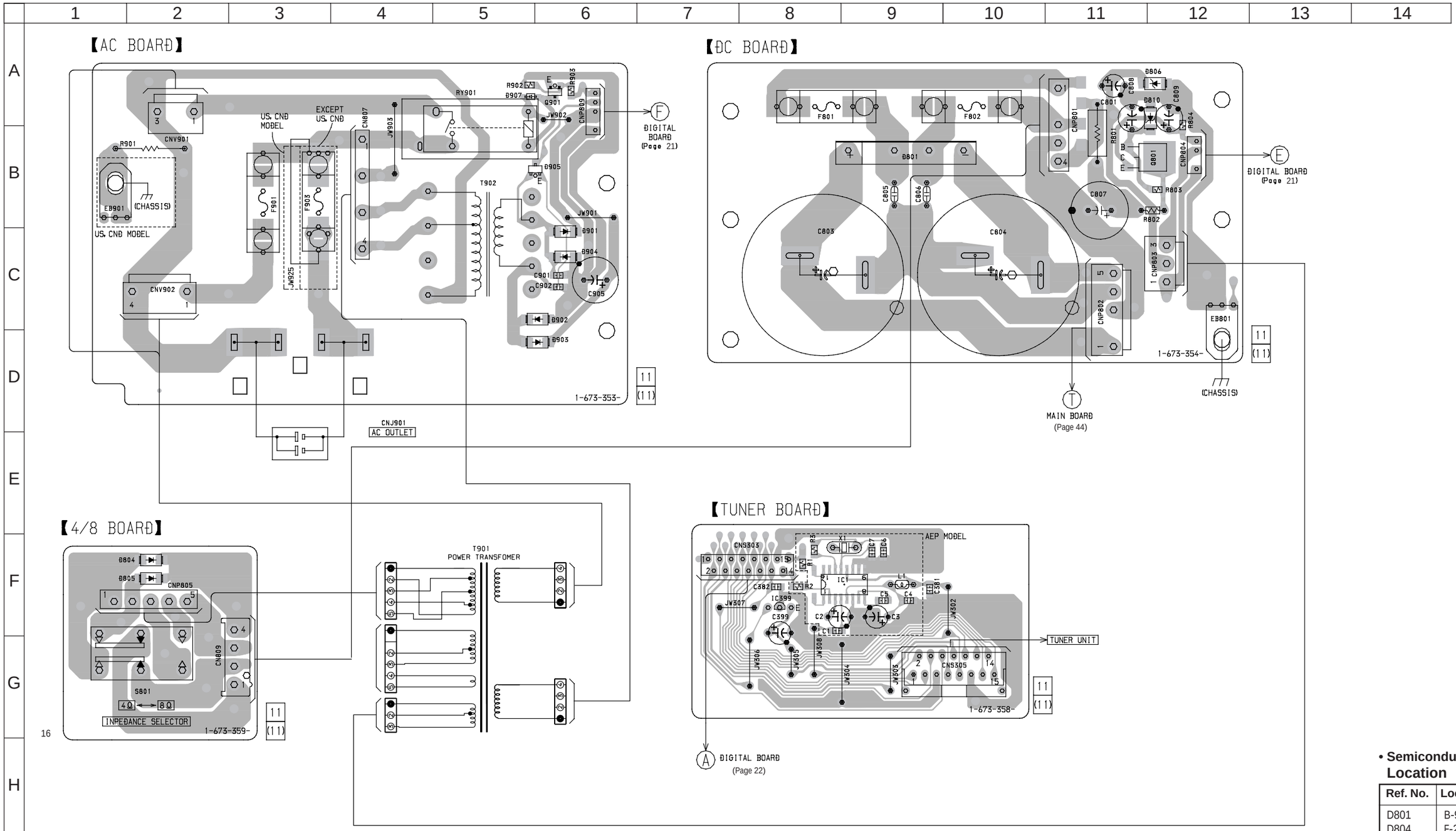
• See page 61 for IC Block Diagrams.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-15. PRINTED WIRING BOARD POWER SECTION

• See page 11 for Circuit Boards Location.

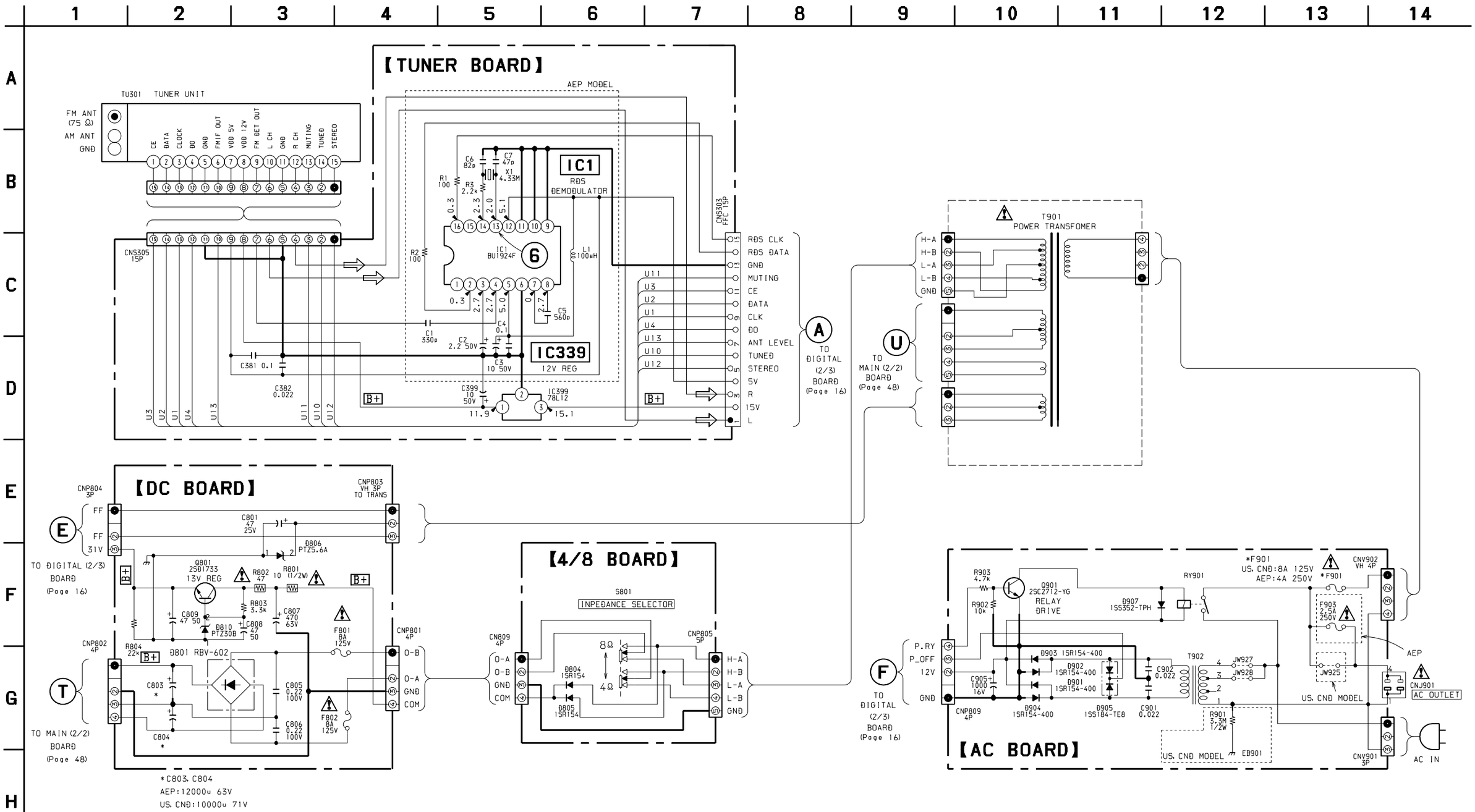


• **Semiconductor Location**

Ref. No.	Location
D801	B-9
D804	F-2
D805	F-2
D806	A-12
D810	B-12
D901	C-6
D902	C-6
D903	D-6
D904	C-6
D905	B-6
D907	A-5
IC399	F-8
Q801	B-12
Q901	A-5

4-16. SCHEMATIC DIAGRAM POWER SECTION

• See page 12 for Waveforms. • See page 61 for IC Block Diagrams.



*C803, C804
AEP: 12000u 63V
US, CND: 10000u 71V

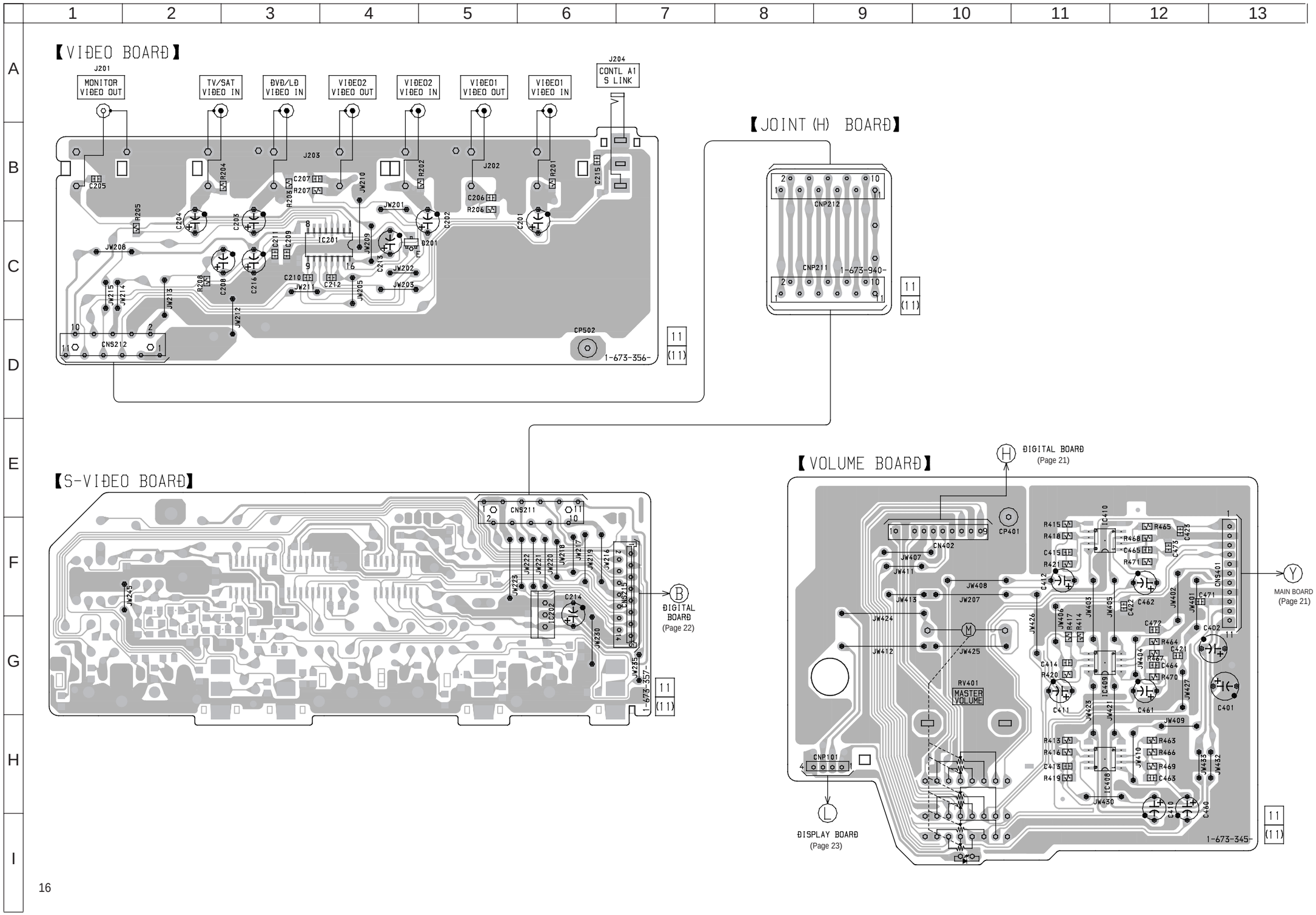
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-17. PRINTED WIRING BOARD VIDEO SECTION

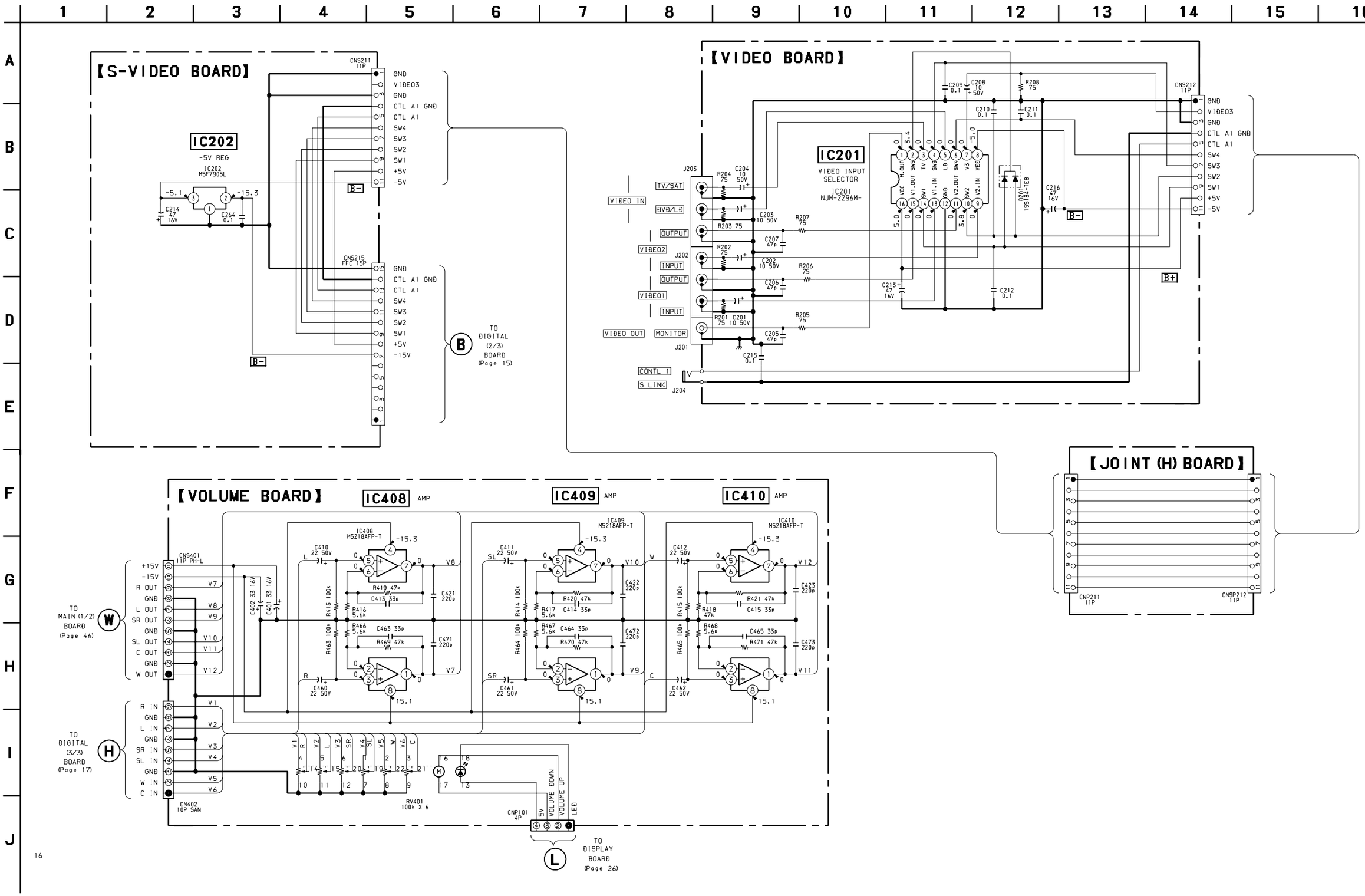
• See page 11 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D201	C-4
D251	F-5
IC201	C-4
IC202	F-6
IC251	F-4
IC252	F-3
IC253	F-3
IC254	F-1
IC408	H-11
IC409	G-11
IC410	F-11
Q251	G-3
Q252	G-3
Q253	G-5
Q254	F-2
Q255	F-2
Q256	G-2
Q257	G-3
Q258	F-3

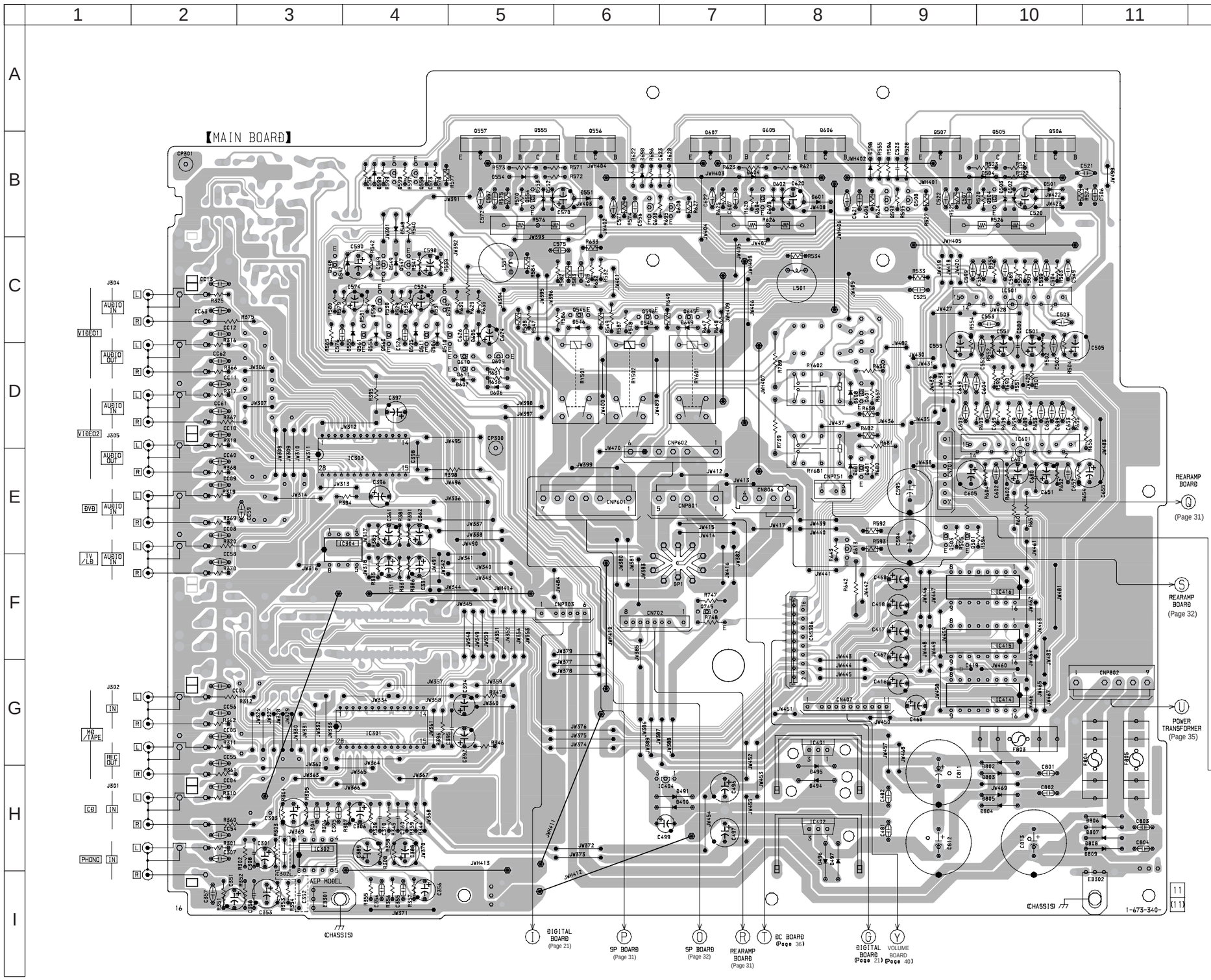


4-18. SCHEMATIC DIAGRAM VIDEO SECTION



4-19. PRINTED WIRING BOARD MAIN SECTION

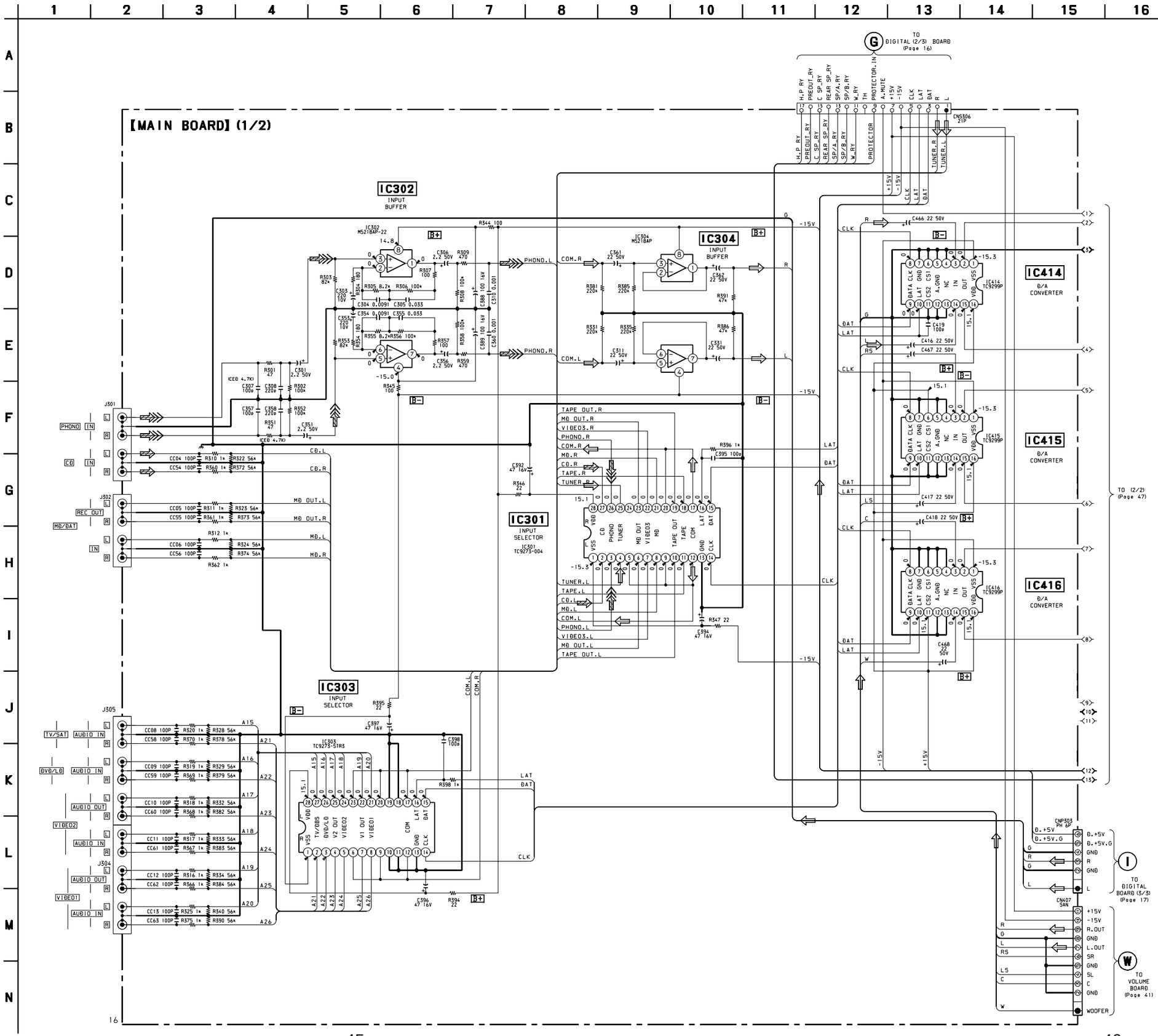
• See page 11 for Circuit Boards Location.



• Semiconductor Location

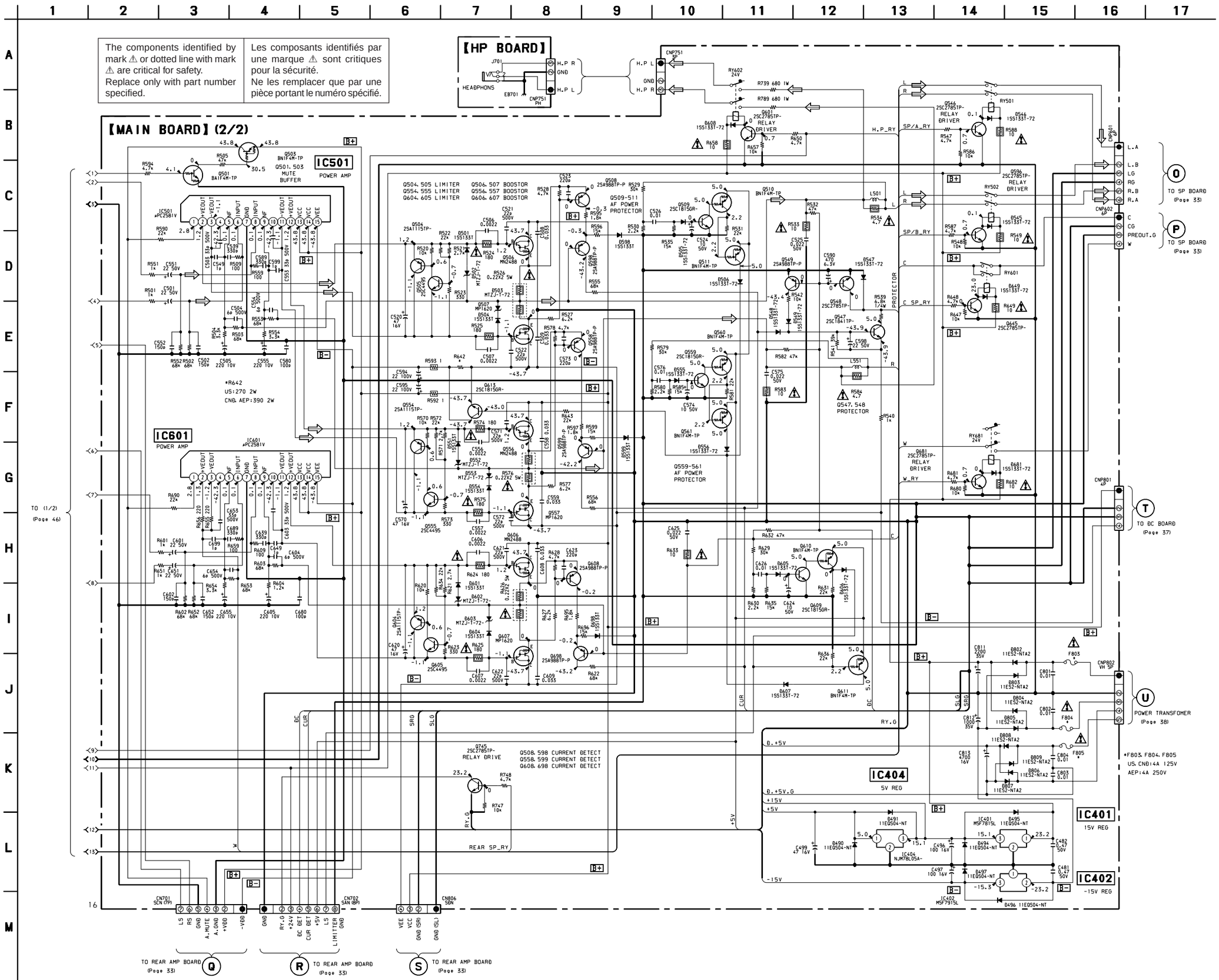
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D490	H-7	D608	D-8	Q508	B-9
D491	H-7	D649	C-7	Q509	C-4
D494	H-8	D681	E-8	Q510	C-5
D495	H-8	D698	B-6	Q511	C-4
D496	H-8	D802	H-10	Q546	C-6
D497	H-8	D803	H-10	Q547	C-4
D501	B-10	D804	H-10	Q548	C-3
D502	B-10	D805	H-10	Q549	C-4
D503	B-10	D806	H-11	Q554	B-5
D504	B-10	D807	H-11	Q555	B-5
D505	C-4	D808	H-11	Q556	C-6
D506	C-4	D809	H-11	Q557	B-5
D545	C-6			Q558	C-4
D546	C-6	IC301	G-4	Q559	B-4
D547	C-4	IC302	H-3	Q560	C-4
D548	B-4	IC303	E-4	Q561	C-4
D549	C-4	IC304	E-3	Q596	C-6
D551	B-6	IC401	G-8	Q598	B-9
D552	B-5	IC402	H-8	Q599	B-4
D553	B-5	IC404	H-7	Q601	D-8
D554	B-5	IC414	F-10	Q604	B-7
D555	C-4	IC415	F-10	Q605	B-8
D598	B-8	IC416	F-10	Q606	B-8
D598	B-9	IC501	C-10	Q607	B-7
D599	B-4	IC601	D-10	Q608	B-7
D601	B-8			Q609	D-5
D602	B-8	Q501	E-9	Q610	D-5
D603	B-8	Q503	E-9	Q611	D-5
D604	B-7	Q504	B-10	Q613	E-8
D605	C-5	Q505	B-10	Q645	C-7
D606	D-5	Q506	B-10	Q681	E-8
D607	D-5	Q507	B-9	Q698	B-6
				Q745	F-7

4-20. SCHEMATIC DIAGRAM MAIN SECTION(1/2) • See page 61 for IC Block Diagrams.



4-21. SCHEMATIC DIAGRAM MAIN SECTION (2/2)

• See page 43 for Printed Wiring Board. • See page 61 for IC Block Diagrams.



4-22. IC PIN FUNCTION DESCRIPTION

IC1401 CXD2712R AUDIO DSP(DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	VSS3	—	Ground
2 – 5	SOA – SOD	O	Serial data output
6, 7	ECJ0, ECJ1	I	Conditional jump input terminal (7pin Connected to ground)
8	—	NC	No connection
9	XHDWR	I	HCIF data write
10	XHDRD	I	HCIF data read
11	VSS4	—	Ground
12	VDD2	—	+3.3V
13	HRDY	O	HCIF ready signal Open drain
14	XHDCS	I	HCIF chip select
15	HA0	I	HCIF address input
16 – 20	HD0 – HD4	I/O	HCIF data input/output
21	VSS5	—	Ground
22	VDD3	—	+3.3V
23 – 25	HD5 – HD7	I/O	HCIF data input/output
26	XRST	I	Reset input “L”: active
27 – 30	FGP0 – FGP3	O	Test data output
31	VSS6	—	Ground
32 – 40	ED0 – ED8	I/O	External RAM data input/output
41	VSS7	—	Ground
42	VDD4	—	+3.3V
43 – 49	ED9 – ED15	I/O	External RAM data input/output
50	TSTD	I	Test data input “L” = normal “H” = test (Connected to ground)
51	VSS8	—	Ground
52	VDD5	—	+3.3V
53 – 60	ED16 – ED23	I/O	External RAM data input/output
61	VSS9	—	Ground
62 – 69	ED24 – ED31	I/O	External RAM data input/output
70	XOE	O	External RAM output enable
71	VSS10	—	Ground
72	VDD6	—	+3.3V
73	CAS	O	External RAM column address strobe (Not used)
74	XWE	O	External RAM write enable (Not used)
75	RAS	O	External RAM raw address strobe
76 – 80	EA0 – EA4	I/O	External RAM address output/test data input
81	VSS11	—	Ground
82	VDD7	—	+3.3V
83 –89	EA5 – EA11	I/O	External RAM address output/test data input
90	EA12	O	External RAM address output

Pin No.	Pin Name	I/O	Description
91	VSS0	—	Ground
92 – 94	EA13 – EA15	O	External RAM address output
95	EA16	O	Not used
96	TSTA	I	Test data input “L” = normal “H” = test (Connecting to ground)
97	PLDIVF	I	PLL input frequency select “L” = 256Fs “H” = 128Fs (Connecting to ground)
98	PLDIVB	O	PLL output frequency select “L” = 768Fs “H” = 1024Fs (Connecting to ground)
99	CLKI	I	Master clock input
100	CLKO	O	Master clock output (Not used)
101	VSS1	—	Ground
102	VDD0	—	+3.3V
103	AVSS	—	Ground for PLL cell
104	AVDD	—	VDD for PLL cell
105	PLLCK	I/O	PLL output/test clock input
106	XPLLEN	I	PLL cell oscillation enable “L” oscillation enable “H” oscillation stop (Connecting to ground)
107	TST	I	Test data input “L” = normal “H” = test (Connecting to ground)
108	LRCT	I	Frequency counter input (Connecting to ground)
109	LROUT	O	LRCK0 divider output
110	BKOUT	O	BCK0 divider output
111	VSS2	—	Ground
112	VDD1	—	+3.3V
113	BCK0	I	BCK input
114	BCK1	I	BCK input
115	LRCK0	I	LRCK input
116	LRCK1	I	LRCK input
117 – 120	SIA – SID	I	Serial data input

IC1201 MB90573PFV-G-190-BND SYSTEM CONTROL(DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	SCLK	O	To CXD9511Q clock
2	SI	I	To CXD9511Q data input
3	SO	O	To CXD9511Q data output
4	CS	O	To CXD9511Q chip select
5	IC	O	To CXD9511Q reset(Pull Down near CXD9511Q)
6	D.SIG	I	ZERO data detect
7	5.1CH	O	5.1CH muting.
8	VCC	—	Power supply +5 V
9	SIN0	I	UART input. Used for rewriting flash memory
10	SOT0	O	UART output. Used for rewriting flash memory
11	N.C	O	Not used (Connected to ground)
12	N.C	O	Not used (Connected to ground)
13	XHDWR	O	To CXD2712 data write
14	XHDRD	O	To CXD2712 data read
15	SOD	I	To CXD2712 LFE detection
16	XHDCS	O	To CXD2712 chip select
17	HD7	O	To CXD2712 HCIF data I/O
18	HD6	O	To CXD2712 HCIF data I/O
19	HD5	O	To CXD2712 HCIF data I/O
20	HD4	O	To CXD2712 HCIF data I/O
21	HD3	O	To CXD2712 HCIF data I/O
22	HD2	O	To CXD2712 HCIF data I/O
23	HD1	O	To CXD2712 HCIF data I/O
24	HD0	O	To CXD2712 HCIF data I/O
25	HA0	O	To CXD2712 address
26	XRST	O	To CXD2712 reset
27	HRDY	I	To CXD2712 ready
28	CS	O	To AK4526A chip select
29	CCLK	O	To AK4526A clock
30	CDTI	O	To AK4526A data input
31	CDTO	I	To AK4526A data output
32	PD	O	To AK4526A reset
33	VSS	—	Ground (Connected to ground)
34	C	—	External power regulator capacitor 0.1u is connected to this terminal.
35	96KHz	O	To AK4526A Dfs
36	N.C	I	Not used (Connected to ground)
37	N.C	I	Not used (Connected to ground)
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital ground (Connected to ground)
40	N.C	O	Not used (Connected to ground)
41	N.C	—	Not used (Connected to ground)
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply +5 V
44	AVR-	—	Ground (Connected to ground)
45	AVSS	—	Ground (Connected to ground)
46	EVSTB	O	To TC9299 strobe
47	EVDATA	O	To TC9299 data
48	EVCLK	O	To TC9299 clock
49	DISPMR	I	Display master request (Connected to MCU U.MREQ)
50	DISPDATA	I	Display data (Connected to MCU U.DATA)

Pin No.	Pin Name	I/O	Description
51	SLVDTA/REQ	O	Slave data/request (Connected to MCU U.SREQ)
52	DISPCLK	I	Display clock (Connected to MCU U.CLOCK)
53	N.C	I	Not used (Connected to ground)
54	VCC	—	Power supply +5 V
55	S.LAT	O	To tuner latch
56	S.DATA	O	To tuner data
57	S.CLK	O	To tuner clock
58	DATA IN	I	PLL data in
59	AUSTOP	I	Auto stop input
60	STEREO	I	Stereo input
61	N.C	I	Not used (Connected to ground)
62	N.C	I	Not used (Connected to ground)
63	VSS	—	Ground (Connected to ground)
64	N.C	I	Not used (Connected to ground)
65	TH	I	TH Protector input
66	PROTEC	I	Protector input
67	STOP	I	AC power check
68	N.C	I	Not used (Connected to ground)
69	N.C	I	Not used (Connected to ground)
70	N.C	I	Not used (Connected to ground)
71	N.C	I	Not used (Connected to ground)
72	VIDEO(SW4)	O	Video select SW4
73	X1A	—	Not used
74	X0A	—	Not used
75	VIDEO(SW3)	O	Video select SW3
76	VIDEO(SW2)	O	Video select SW2
77	VIDEO(SW1)	O	Video select SW1
78	DIGITAL 1/4	I	Digital function
79	TAPE NO/ YES	I	Tape NO/YES input
80	VIDEO3 NO/ YES	I	I VIDEO3 NO/ YES input
81	DTS NO/ YES	I	DTS NO/ YES input
82	ACMUTE	O	Power amp mute ON/OFF output
83	96K NO/YES	I	96K NO/YES input
84	T.MUTE	O	Tuner muting
85	S.MUTE	O	Surround muting (Connected to ground)
86	HSTX	—	Hardware standby (Connected to power supply +5 V)
87	MD2	—	MD2 (To MCU MD2)
88	MD1	—	MD1 (Connect to power supply)
89	MD0	—	MD0 (To MCU MD0)
90	REST	I	Reset (Connected to MB90553 U.RESET)
91	VSS	—	Ground (Connected to ground)
92	XO	—	External ceramic filter 16MHz is connected to this terminal
93	XI	—	External ceramic filter 16MHz is connected to this terminal
94	VCC	—	Power supply +5V
95	PO0	I	Flash memory rewrite (Connected to ground)
96	PO1	I	Flash memory rewrite (Connected to ground)
97	RY-4/B	O	4/8 relay
98	RY-PRE	O	Pre relay
99	RY-FRONT/A	O	Front speaker A relay
100	RY-FRONT/B	O	Front speaker B relay

Pin No.	Pin Name	I/O	Description
101	RY-CENTER	O	Center speaker relay
102	RY-REAR	O	Rear speaker relay
103	RY-WOOFER	O	Sub Woofer relay
104	RY-HP	O	Head phone relay
105	RY-POWER	O	Power relay
106	ANG/DIG	O	Analog/digital selection
107	DIG-INB	O	Digital input select B
108	DIG-INA	O	Digital input select A
109	XMODE	O	Direct pass relay
110	CL	O	To LC89055 clock
111	CE	O	To LC89055 latch
112	DI	O	To LC89055 data
113	DO	I	To LC89055 C-bit
114	ERROR	I	Error output to LC89055
115	BYSYNC	I	Non PCM sync detect flag LC89055
116	AUTO	I	Non PCM data detect flag LC89056
117	CSFLAG	I	C-bit change flag LC89055
118	XSTATE	I	Xtal status Frag LC89055
119	VSS	—	Ground (Connected to ground)
120	N.C	—	Not used (Connected to ground)

IC1503 AK4526A A/D,D/A CONVERTER (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	SDOS	I	SDTO source select pin "L": internal ADC output, "H": DAUX input ORed with serial control register if P/$\overline{S}$ = "L" (Connected to ground)
2	$\overline{MCLK}$	I	MCKO clock frequency select pin "L": MCLK, "H": MCLK/2. ORed with serial control register if P/$\overline{S}$ = "L" (Connected to ground)
3	$\overline{S}$/M	I	Audio data master/slave mode select pin "L": slave mode, "H": master mode (Connected to ground)
4	BCLK	I/O	Audio serial data clock pin
5	LRCK	I/O	Input/output channel clock pin
6	SDT11	I	DAC1 audio serial data input pin
7	SDT12	I	DAC2 audio serial data input pin
8	SDT13	I	DAC3 audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX audio serial data input pin (Connected to ground)
11	DFS	I	Double speed sampling mode pin "L": normal speed, "H": double speed ORed with serial control register if P/$\overline{S}$ = "L" (Connected to ground)
12 – 13	DEM1 – DEM0	I	De-emphasis pin ORed with serial control register if P/$\overline{S}$ = "L" (Connected to ground)
14	MCKO	O	Master clock output pin (Not used)
15	D. 5V	—	Digital power supply pin
16	D. GND	—	Digital ground pin
17	$\overline{PD}$	I	Power-down & reset pin When "L", the AK4526 is powered-down and the control registers are reset to default state. If the state of P/$\overline{S}$, M/$\overline{S}$, CAD0-1 changes, then the AK4526 must be reset by $\overline{PD}$.
18	TEST	I	X'tal oscillator select/test mode pin "H": X'tal oscillator selected "L": External clock source selected "NC": If pin is floating then test mode is enabled. (Connected to ground)
19	ICKS1	I	Input clock select 1 pin (Connected to ground)
20	ICKS0	I	Input clock select 0 pin (Connected to ground)
21	CAD1	I	Chip address pin Used during the serial control mode. (Connected to ground)
22	CAD0	I	Chip address pin Used during the serial control mode. (Connected to ground)
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #1 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN–	I	Lch analog negative input pin
30	LIN+	I	Lch analog positive input pin

Pin No.	Pin Name	I/O	Description
31	RIN–	I	Rch analog negative input pin
32	RIN+	I	Rch analog positive input pin
33	VREFL	I	Negative voltage reference input pin, AVSS (Connected to gorund)
34	VCOM	O	Common voltage output pin, AVDD/2 Large external capacitor is used to reduce power-supply noise
35	VREFH	I	Positive voltage reference input pin, AVDD
36	A. 5V	—	Analog power supply pin
37	A. GND	—	Analog ground pin
38	XTI	I	X'tal input pin (Not used)
39	MCLKI	I	External master clock input pin if XTS = "L"
40	S/P	I	Parallel/serial select pin "L": serial control mode, "H": parallel control mode (Connected to ground)
41	CS	I	Chip select pin in serial mode
42	CCLK	I	Control data clock pin in serial mode
43	CDTI	I	Control data input in serial mode
44	CDTO	O	Control data output pin in serial mode

If pins TEST, ICKS0, ICKS1, $\overline{PD}$, $\overline{S}$/P, DFS, DEM0, DEM1, CAD0, CAD1, $\overline{S}$/M, $\overline{MCLK}$, SDOS are not driven, then TEST, ICKS0, ICKS1, CAD0, CAD1, must be tied to either AVSS or AVDD. $\overline{PD}$, $\overline{S}$/P, DFS, DEM0, DEM1, $\overline{S}$/M, $\overline{MCLK}$, SDOS must be tied to either DVSS or DVDD.

IC102 MB90553APF-G-138-BND DISPLAY CONTROL(DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	DCS	O	DCS logo display data output to LED.
2	EQ	O	EQ ON/OFF display data output to LED.
3	B.B	O	BASS BOOST display data output to LED.
4	MUTE	O	MUTING display data output to LED.
5	D.D	O	DOLBY DIGITAL display data output to LED.
6	VOLUME	O	VOLUME display data output to LED.
7	POWER RY	O	Power reay display.
8	5V CHECK	O	Power check (+5V)
9	—	—	Not used. (Connected to ground)
10	—	—	Not used. (Connected to ground)
11	VSS	—	Ground (Connected to ground)
12	—	—	Not used. (Connected to ground)
13	—	—	Not used. (Connected to ground)
14	—	—	Not used. (Connected to ground)
15	—	—	Not used. (Connected to ground)
16	—	—	Not used. (Connected to ground)
17	—	—	Not used. (Connected to ground)
18	—	—	Not used. (Connected to ground)
19	SOT0	O	UART data output to rewrite flash memory
20	SIN0	I	UART data intput to rewrite flash memory
21	FL CLK	O	Clock output to flourescent display tube
22	FL DATA	O	Data output to flourescent display tube
23	VCC	—	Power supply +5 V
24	FL LAT	O	Fluorescent latch
25	FL CLEAR	O	Fluorescent clear
26	SIRCS IN	I	SIRCS input
27	C	—	External power regulator capacitor 0.1µ is connected to this terminal.
28	—	—	Not used (Connected to ground)
29	—	—	Not used (Connected to ground)
30	—	—	Not used (Connected to ground)
31	—	—	Not used (Connected to ground)
32	—	—	Not used (Connected to gorund)
33	—	—	Not used (Connected to ground)
34	AVCC	—	Analog power supply +5 V
35	AVRH	—	AVRH (Connected to power supply +5 V)
36	AVRL	—	SVRL (Connected to ground)
37	AVSS	—	Ground (Connected to ground)
38	AD KEY IN 1	I	Key input 1
39	AD KEY IN 2	I	Key input 2
40	AD KEY IN 3	I	Key input 3
41	AD KEY IN 4	I	Key input 4
42	VSS	—	Ground (Connected to ground)
43	AD KEY IN 5	I	Key input 5
44	AD KEY IN 6	I	Key input 6
45	AD KEY IN 7	I	Key input 7
46	RDS SIGNAL	I	RDS signal input.
47	STOP	I	Stop input
48	—	—	Not used (Connected to ground)
49	MD 0	I	MD 0 (To MD0 of MB90573)
50	MD 1	I	MD 1 (Connected to power supply +5 V)

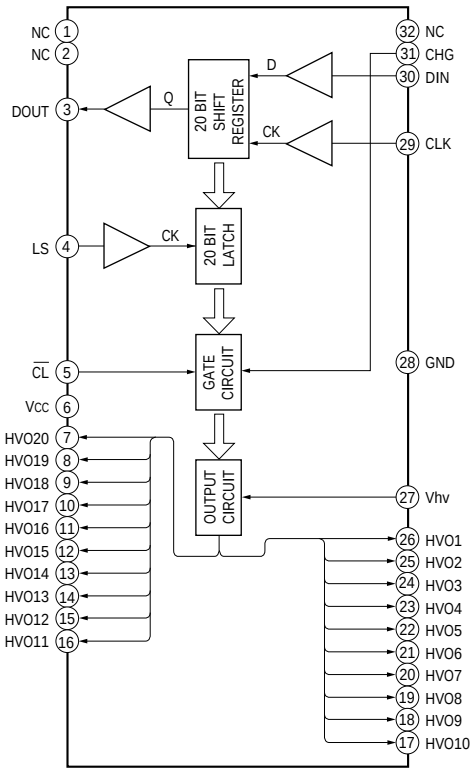
Pin No.	Pin Name	I/O	Description
51	MD 2	I	MD 2 (To MD2 of MB90573)
52	HSTX	I	Hardware STANDBY input
53	RDS CLOCK	I	RDS clock input
54	RDS DATA	I	RDS data input
55	VOL UP	O	Volume up data output
56	VOL DOWN	O	Volume down data output
57	—	—	Not used (Connected to ground)
58	U-RESET	O	Reset output (Connected to MB90573 RESET)
59	U-SREQ	I	Slave request and data input (Connected to MB90573 SLV DATA/REQ)
60	U-MREQ	O	Master request output (Connected to MB90573 DISPMR)
61	U-DATA	O	Master data output (Connected to MB90573 DISP DATA)
62	U-CLOCK	O	Master clock output (Connected to MB90573 DISPCLK)
63	AUBUS-IN	I	Audio bus input
64	SP-A	I	Speaker A signal input.
65	SP-B	I	Speaker B signal input.
66	POWER-KEY IN	I	POWER-KEY input.
67	AUBUS-OUT	O	Audio bus output
68	VIRSION IN1	I	Virsion input.
69	VIRSION IN 2	I	Virsion input.
70	VIRSION IN 3	I	Virsion input.
71	VIRSION IN 4	I	Virsion input.
72	VIRSION IN 5	I	Virsion input.
73	VIRSION OUT 1	O	Virsion output.
74	VIRSION OUT 2	O	Virsion output.
75	JOG-UP	I	Function encoder up input.
76	JOG-DOWN	I	Function encoder down input.
77	RESET	I	Reset (Display MCU)
78	—	—	Not used (Connected to ground)
79	—	—	Not used (Connected to ground)
80	—	—	Not used (Connected to ground)
81	VSS	—	Ground (Connected to ground)
82	X0	—	External ceramic filter 4 MHz is connected to this terminal
83	X1	—	External ceramic filter 4 MHz is connected to this terminal
84	VCC	—	Power supply +5 V
85	—	—	Not used. (Connected to ground)
86	—	—	Not used. (Connected to ground)
87	LED CLK	I	LED clock input.
88	LED DATA	I	LED data input.
89	LED CE	I	LED chip eneble input.
90	LED CLR	I	LED clear input.
91	—	—	Not used. (Connected to ground)
92	—	—	Not used. (Connected to ground)
93	MBUS-V1	I	V1 input from MBUS
94	MBUS-DVD	I	DVD input from MBUS
95	MBUS-TV	I	TV input from MBUS
96	MBUS-STATUS	I	STATUS input from MBUS
97	—	—	Not used. (Connected to ground)
98	LAT	O	Learning microprocessor latch output
99	—	—	Not used. (Connected to ground)
100	—	—	Not used. (Connected to ground)

IC1101 LC89055W DIGITAL AUDIO I/F RECEIVER (DIGITAL BOARD)

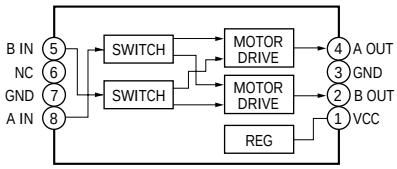
Pin No.	Pin Name	I/O	Description
1	DISEL	I	Input data select. (connected to ground.)
2	DOUT	O	EIAJ data and parity flag output terminal (Not used)
3	DIN0	I	Amplifier integrate data input terminal
4	DIN1	O	Amplifier integrate data input terminal (Connecting to ground)
5	DIN2	I	Amplifier integrate data input terminal (Connecting to ground)
6	D. GND	—	Digital ground
7	D. VDD	O	Digital power supply
8	R	I	Input terminal for VCO generator band adjustment
9	V IN	I	Input terminal for VCO self running frequency set
10	LPF	O	External LPF for PLL is connected to this terminal
11	A. VDD	—	Analog power supply
12	A. GND	—	Analog ground
13	CK OUT	—	256fs or 128fs clock output terminal (Select CLKMD terminal)
14	BCK	O	Bit clock output terminal
15	LRCK	O	L, R clock output terminal (L-ch: “H”, R-ch: “L”)
16	DATA O	O	Audio data output terminal
17	XSTATE	O	Xtal status frag output.
18	D. GND	—	Digital ground
19	D. VDD	—	Digital power supply
20	XMCK	—	Not used.
21	XOUT	O	Crystal oscillator output terminal (Not used.)
22	XIN	I	Crystal oscillator input terminal
23	EMPHA	O	Emphasis monitor output terminal (“H” = ON) (Not used.)
24	AUDIO	—	Not used.
25	CSFLAG	O	C-bit change frag output.
26	F0/P0/C0	—	Not used.
27	F1/P1/C1	—	Not used.
28	F2/P2/C2	—	Not used.
29	F3/P3/C3	—	Not used.
30	D. VDD	—	Digital power supply
31	D. GND	—	Digital ground
32	AUTO	O	Non PCM data detect flag output.
33	BPSYNC	O	Non PCM sync detect flag output.
34	ERROR	O	Error mute output terminal
35	DO	O	Microprocessor I/F. When CCB/$\overline{\text{SUB}}$ is “H”, data output terminal (high level open drain output) (Not used)
36	DI	I	Microprocessor I/F. Data input terminal
37	CE	I	Microprocessor I/F. Chip enable/latch input terminal
38	CLK	I	Microprocessor I/F. Clock input terminal
39	XSEL	I	Xtal select. (Connected to +5V.)
40	MODE0	I	Mode 0 input. (Connected to ground.)
41	MODE1	I	Mode 1 input. (Connected to ground.)
42	D. GND	—	Digital ground
43	D. VDD	—	Digital power supply
44	DOSEL0	O	Output data select 0. (Connected to ground.)
45	DOSEL1	O	Output data select 1. (Connected to ground.)
46	CKSEL0	I	System clock select input 0. (Connected to ground.)
47	CKSEL1	I	System clock select input 1. (Connected to ground.)
48	XMODE	I	Reset input.

4-23. IC BLOCK DIAGRAMS

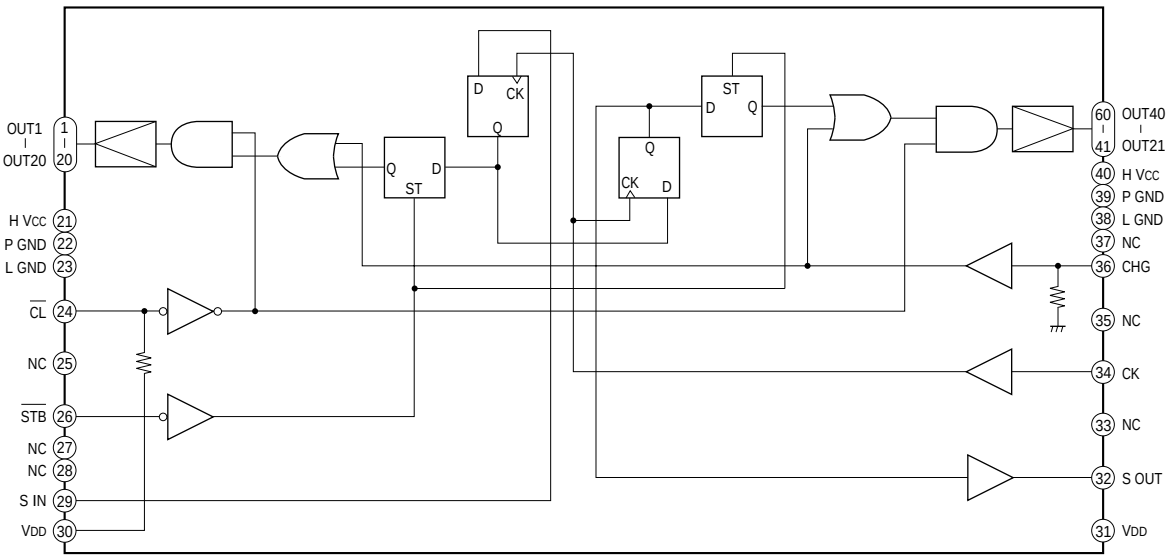
IC103 MSC1164GS-K (DISPLAY SECTION)



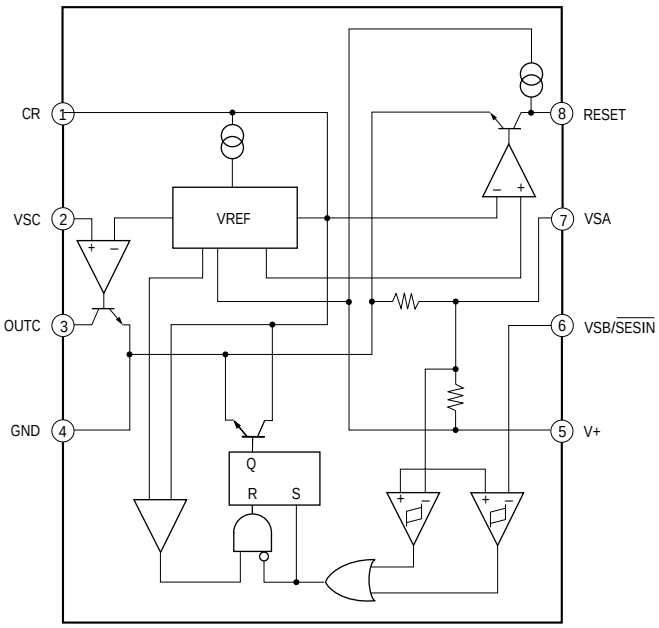
IC105 BA6208F (DISPLAY SECTION)



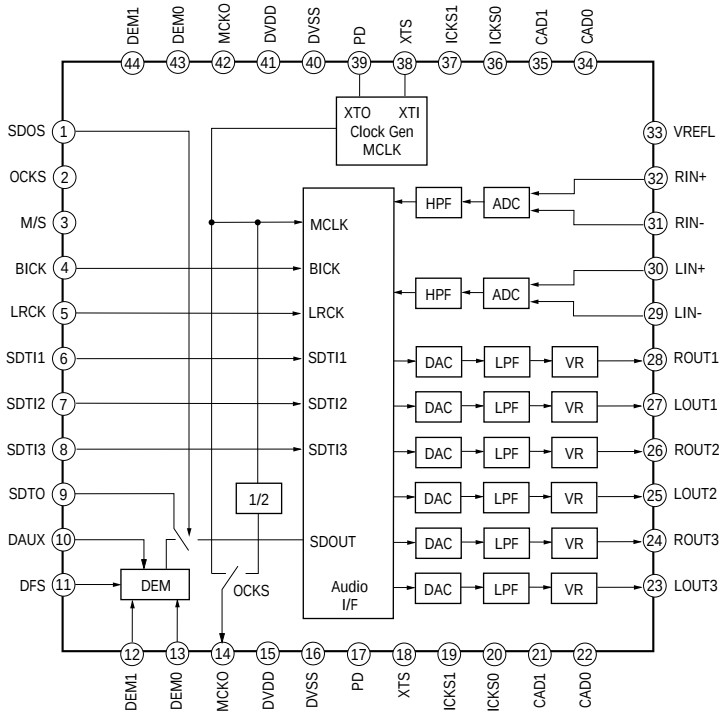
IC103 TD62C950RF (DISPLAY SECTION)



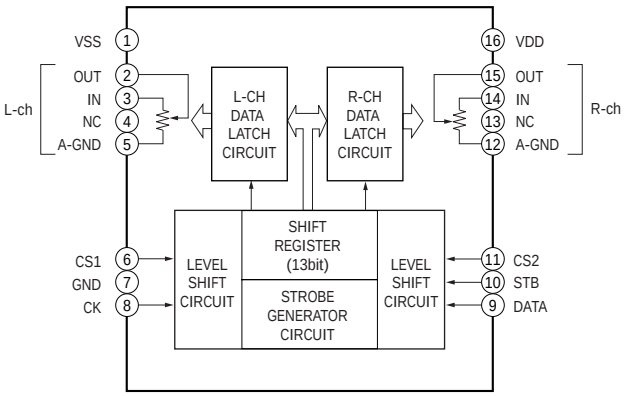
IC1206 NJM2103 (DIGITAL SECTION)



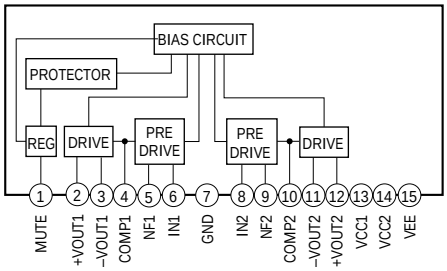
IC1503 AK4526 (DIGITAL SECTION)



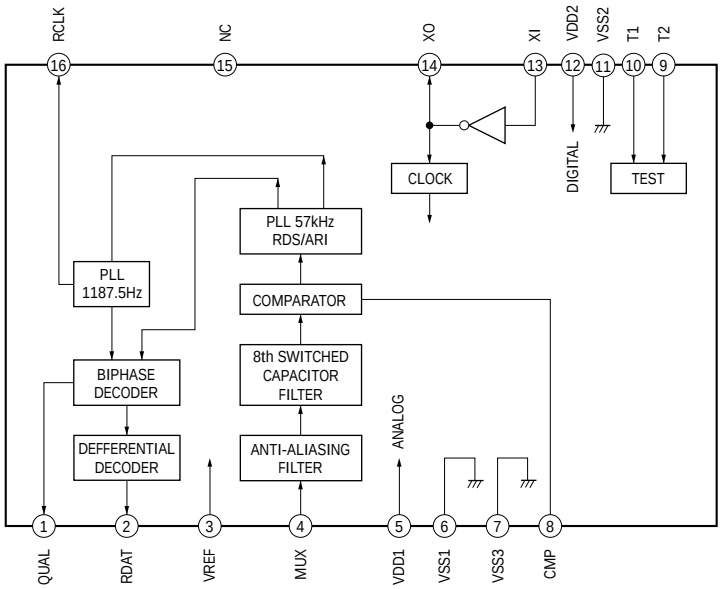
IC414, 415, 416 TC9299P (MAIN SECTION)



IC501, 601 µPC2581V (MAIN SECTION)
IC701 µPC2581V (REAR AMP SECTION)



IC1 BU1924F (TUNER SECTION)



SECTION 5
EXPLODED VIEWS

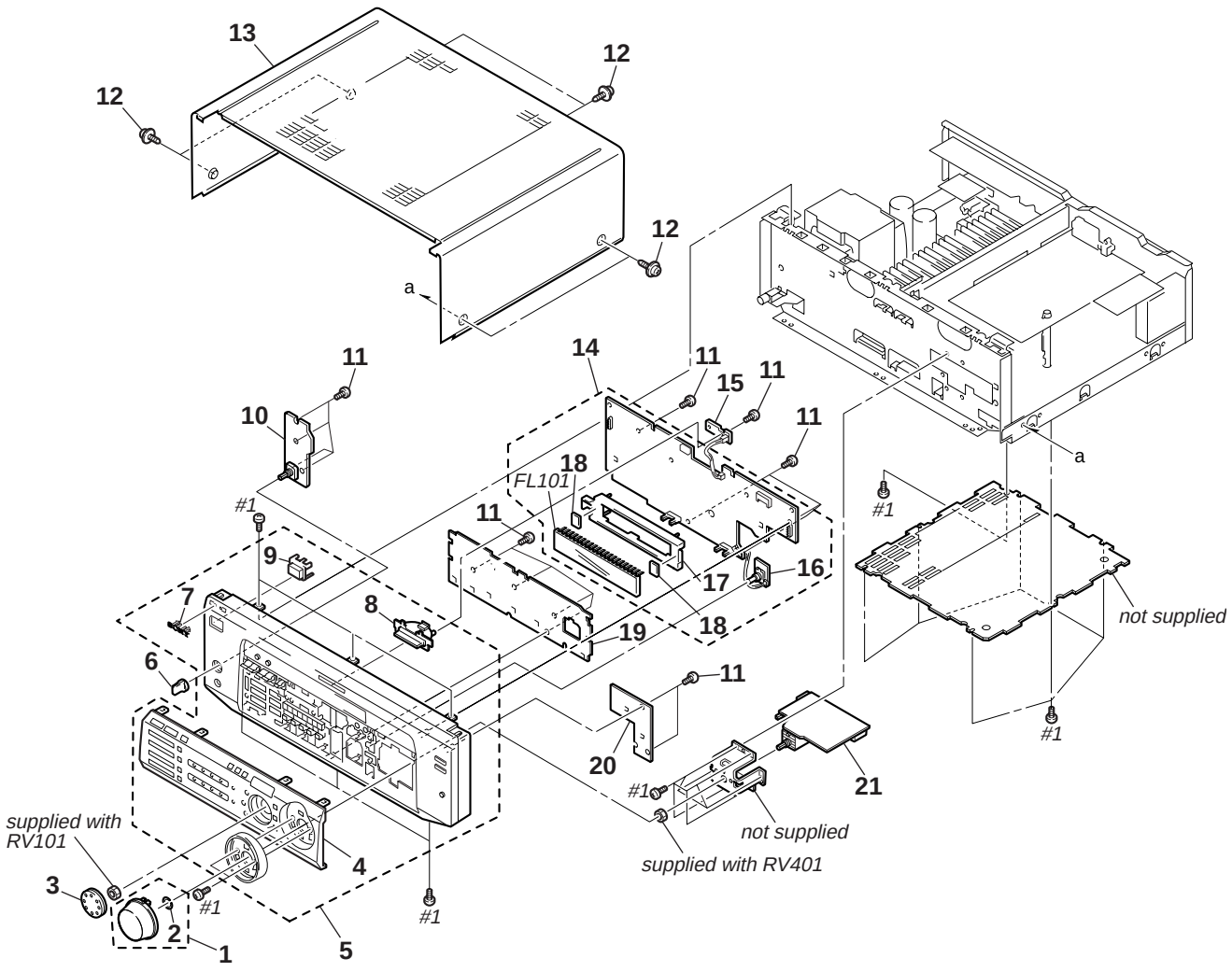
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

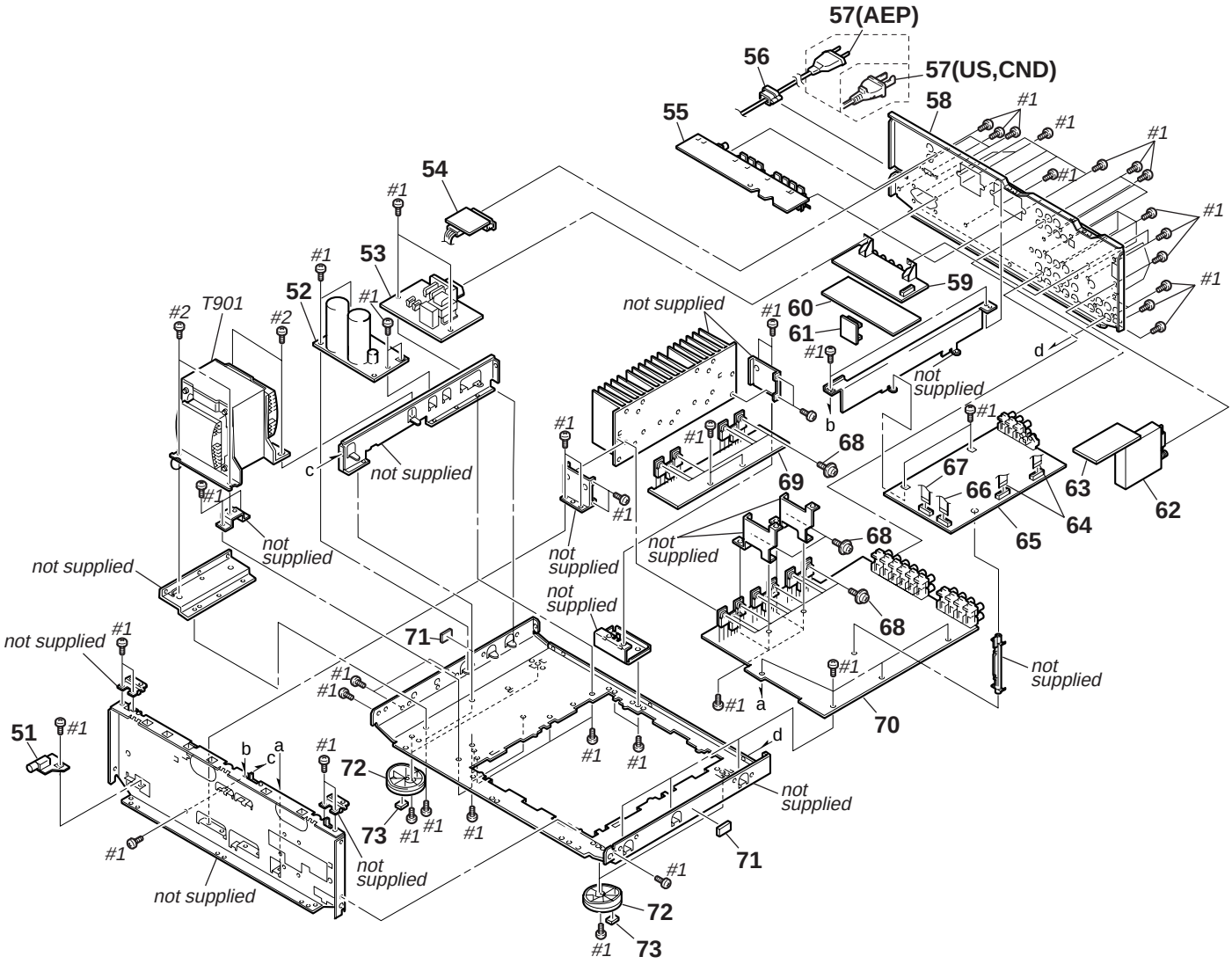
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	X-4951-035-1	KNOB (VOL) ASSY	
2	3-350-426-01	SPRING, RING	
3	4-221-474-01	KNOB (JOG)	
4	4-217-853-11	ESCUTCHEON (US,CND)	
4	4-217-853-51	ESCUTCHEON (AEP)	
5	X-4951-212-1	BASE (635U) ASSY, PANEL (US,CND)	
5	X-4951-252-1	BASE (635CED) ASSY, PANEL (AEP)	
6	4-957-383-01	KNOB (F14)	
7	4-996-698-01	EMBLEM, SONY	
8	X-4951-572-1	ESCUTCHEON (WIN) ASSY	
9	4-996-683-21	BUTTON (POWER)	
* 10	1-673-347-11	SP-SW BOARD	
11	4-951-620-01	SCREW (2.6 × 8), +BVTP	
12	4-210-291-01	SCREW (CASE 3 TP2)	
* 13	4-982-682-01	CASE (414532) (US,CND)	
13	X-4947-722-1	CASE ASSY (AEP)	
* 14	A-4419-393-A	DISPLAY BOARD, COMPLETE(US,CND)	
* 14	A-4419-395-A	DISPLAY BOARD, COMPLETE(AEP)	
* 15	1-673-350-11	LED BOARD	
* 16	1-673-348-11	ROTARY BOARD	
* 17	4-990-797-01	HOLDER (FL)	
* 18	4-921-941-01	CUSHION (FL)	
19	A-4419-404-A	SW BOARD, COMPLETE(US,CND)	
* 19	A-4419-405-A	SW BOARD, COMPLETE(AEP)	
* 20	1-673-346-11	MUTING BOARD	
* 21	A-4419-407-A	VOLUME BOARD, COMPLETE(US,CND)	
21	A-4426-060-A	VOLUME BOARD, COMPLETE(AEP)	
FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT	

5-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
* 51	1-673-349-11	H.P BOARD	
* 52	1-673-354-11	DC BOARD	
* 53	1-673-353-11	AC BOARD	
* 54	1-673-359-11	4/8 BOARD	
* 55	1-673-355-11	SP BOARD	
* 56	3-703-244-00	BUSHING (2104), CORD	
⚠57	1-769-743-11	CORD, POWER (CND)	
⚠57	1-769-744-11	CORD, POWER (AEP)	
⚠57	1-783-531-11	CORD, POWER (US)	
* 58	4-217-900-01	PANEL, BACK (US)	
* 58	4-217-900-21	PANEL, BACK (AEP)	
* 58	4-218-334-01	PANEL, BACK (CND)	
* 59	1-673-357-11	S-VIDEO BOARD	
* 60	1-673-356-11	VIDEO BOARD	
* 61	1-673-940-11	JOINT(H) BOARD	
* 63	1-673-358-11	TUNER BOARD	
64	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)	
* 65	A-4419-439-A	DIGITAL BOARD, COMPLETE (US,CND)	

Ref. No.	Part No.	Description	Remarks
65	A-4426-045-A	DIGITAL BOARD, COMPLETE (AEP)	
66	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)	
67	1-773-112-11	WIRE (FLAT TYPE) (19 CORE)	
68	3-905-609-11	SCREW (TRANSISTOR)	
69	A-4419-390-A	REAR-AMP BOARD, COMPLETE(US,CND)	
* 69	A-4419-391-A	REAR-AMP BOARD, COMPLETE(AEP)	
* 70	A-4419-379-A	MAIN BOARD, COMPLETE(US)	
* 70	A-4419-380-A	MAIN BOARD, COMPLETE(CND)	
* 70	A-4419-382-A	MAIN BOARD, COMPLETE(AEP)	
71	4-985-642-01	CUSHION	
72	X-4947-207-1	FOOT ASSY (F50150S) (AEP)	
72	X-4947-208-1	FOOT ASSY (F50150S) (US,CND)	
73	4-977-358-11	CUSHION (US,CND)	
⚠T901	1-433-771-11	TRANSFORMER, POWER (AEP)	
⚠T901	1-433-884-11	TRANSFORMER, POWER (US)	
⚠T901	1-433-885-11	TRANSFORMER, POWER (CND)	
TU301	1-693-407-11	TUNER (US,CND)	
TU301	1-693-409-11	TUNER (AEP)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4/8 AC DC

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- Abbreviation
  CND : Canadian model

When indicating parts by reference number, please include the board name.

- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
*	1-673-359-11	4/8 BOARD			
		*********			
		< CONNECTOR >			
* CNP805	1-564-216-00	PIN, CONNECTOR 5P			
		< DIODE >			
D804	8-719-053-18	DIODE 1SR154-400TE-25			
D805	8-719-053-18	DIODE 1SR154-400TE-25			
		< SWITCH >			
S801	1-571-309-21	SWITCH (INPEDANCE SELECTOR)			
**********					
*	1-673-353-11	AC BOARD			
		********			
	1-533-217-41	FUSE HOLDER			
		< CAPACITOR >			
C901	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C902	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C905	1-126-767-11	ELECT	1000uF	20%	16V
		< CONNECTOR >			
⚠CNJ901	1-251-718-11	OUTLET (2 GANG), AC (AC OUTLET)			(US,CND)
⚠CNJ901	1-785-285-11	OUTLET, AC (1P) (AC OUTLET)			(AEP)
CNP809	1-784-921-11	PIN, CONNECTOR 4P			
CNV901	1-564-321-00	PIN, CONNECTOR 2P			
* CNV902	1-565-792-11	PIN, CONNECTOR 2P			
		< DIODE >			
D901	8-719-053-18	DIODE 1SR154-400TE-25			
D902	8-719-053-18	DIODE 1SR154-400TE-25			
D903	8-719-053-18	DIODE 1SR154-400TE-25			
D904	8-719-053-18	DIODE 1SR154-400TE-25			
D905	8-719-801-78	DIODE 1SS184-TE85L			
D907	8-719-016-74	DIODE 1SS352-TPH3			
		< FUSE >			
⚠F901	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) 8A/125V			(US,CND)
⚠F901	1-532-504-51	FUSE TIME LAG 4A/250V			(AEP)
⚠F903	1-532-464-51	FUSE TIME LAG 2.5A/250V			(AEP)
		< EARTH TERMINAL >			
* EB901	1-537-738-21	TERMINAL, EARTH			(US,CND)

Ref. No.	Part No.	Description			Remarks
		< TRANSISTOR >			
Q901	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
		< RESISTOR >			
R901	1-202-725-00	SOLID	3.3M	10%	1/2W
					(US,CND)
R902	1-216-073-00	METAL CHIP	10K	5%	1/10W
R903	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		< RELAY >			
RY901	1-755-298-11	RELAY			
		< TRANSFORMER >			
⚠T902	1-433-685-11	TRANSFORMER, POWER			(AEP)
⚠T902	1-433-686-11	TRANSFORMER, POWER			(US,CND)
**********					
*	1-673-354-11	DC BOARD			
		********			
	1-533-217-41	FUSE HOLDER			
		< CAPACITOR >			
C801	1-104-664-11	ELECT	47uF	20%	25V
C803	1-125-897-11	ELECT	10000uF	20%	71V
					(US,CND)
C803	1-125-997-11	ELECT	12000uF	20%	63V
					(AEP)
C804	1-125-897-11	ELECT	10000uF	20%	71V
					(US,CND)
C804	1-125-997-11	ELECT	12000uF	20%	63V
					(AEP)
C805	1-130-781-00	FILM	0.22uF	10%	100V
C806	1-130-781-00	FILM	0.22uF	10%	100V
C807	1-128-555-91	ELECT	470uF	20%	63V
C808	1-126-967-11	ELECT	47uF	20%	50V
C809	1-126-967-11	ELECT	47uF	20%	50V
		< CONNECTOR >			
CNP801	1-785-102-21	PIN, CONNECTOR 4P			
CNP802	1-785-102-11	PIN, CONNECTOR 4P			
* CNP803	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
CNP804	1-779-978-11	PIN, CONNECTOR 3P			
		< DIODE >			
D801	8-719-072-05	DIODE RBV-602LF-A			
D806	8-719-070-30	DIODE PTZ-TE25-5.6A			
D810	8-719-074-75	DIODE PTZ-TE25-30B			

Ref. No.	Part No.	Description			Remarks
		< EARTH TERMINAL >			
* EB801	1-537-738-21	TERMINAL, EARTH			
		< FUSE >			
⚠F801	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5)			8A/125V
⚠F802	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5)			8A/125V
⚠F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)			4A/125V (US,CND)
		< TRANSISTOR >			
Q801	8-729-048-78	TRANSISTOR 2SD1733-TL-QR			
		< RESISTOR >			
⚠R801	1-247-727-11	CARBON	10	5%	1/2W F
R802	1-249-401-11	CARBON	47	5%	1/4W F
R803	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R804	1-216-081-00	METAL CHIP	22K	5%	1/10W
**********					
*	A-4419-439-A	DIGITAL BOARD, COMPLETE (US,CND)			
		**********			
	A-4426-045-A	DIGITAL BOARD, COMPLETE (AEP)			
		**********			
		< CAPACITOR >			
C1001	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1005	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1006	1-126-935-11	ELECT	470uF	20%	6.3V (US,CND)
C1006	1-128-834-11	ELECT	470uF	20%	10V (AEP)
C1007	1-126-965-11	ELECT	22uF	20%	50V
C1008	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1009	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1010	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C1011	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1012	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1013	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1014	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1015	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1016	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1017	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1018	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1019	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1020	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1031	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1101	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1102	1-104-664-11	ELECT	47uF	20%	16V
C1103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1104	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1105	1-104-664-11	ELECT	47uF	20%	16V
C1106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1107	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1109	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1110	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1111	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remarks
C1156	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1157	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1201	1-119-824-11	ELECT MELF	10uF	20%	50V
C1202	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1203	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1204	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1205	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1206	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C1207	1-104-664-11	ELECT	47uF	20%	16V
C1208	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1209	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1210	1-104-664-11	ELECT	47uF	20%	16V
C1211	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1212	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1213	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1214	1-104-664-11	ELECT	47uF	20%	16V
C1215	1-126-935-11	ELECT	470uF	20%	16V
C1216	1-126-935-11	ELECT	470uF	20%	16V
C1217	1-126-935-11	ELECT	470uF	20%	16V
C1218	1-126-959-11	ELECT	0.47uF	20%	50V
C1219	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1220	1-126-957-11	ELECT	0.22uF	20%	50V
C1221	1-119-824-11	ELECT MELF	10uF	20%	50V
C1222	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1223	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1224	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1225	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1226	1-126-960-11	ELECT	1uF	20%	50V
C1227	1-104-664-11	ELECT	47uF	20%	16V
C1228	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1301	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1304	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1305	1-104-664-11	ELECT	47uF	20%	16V
C1306	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1307	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1309	1-126-935-11	ELECT	470uF	20%	6.3V (US,CND)
C1309	1-128-834-11	ELECT	470uF	20%	10V (AEP)
C1310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1311	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1312	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1313	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1314	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1315	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1401	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1402	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1403	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1404	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1405	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1406	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1407	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1408	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1409	1-104-664-11	ELECT	47uF	20%	16V
C1410	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1411	1-165-319-11	CERAMIC CHIP	0.1uF		50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

DIGITAL

Ref. No.	Part No.	Description			Remarks
C1412	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1413	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1414	1-104-664-11	ELECT	47uF	20%	16V
C1416	1-104-664-11	ELECT	47uF	20%	16V
C1417	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1501	1-104-664-11	ELECT	47uF	20%	16V
C1502	1-104-664-11	ELECT	47uF	20%	16V
C1503	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1504	1-104-664-11	ELECT	47uF	20%	16V
C1505	1-104-664-11	ELECT	47uF	20%	16V
C1508	1-126-965-11	ELECT	22uF	20%	50V
C1509	1-104-664-11	ELECT	47uF	20%	16V
C1510	1-126-965-11	ELECT	22uF	20%	50V
C1511	1-126-965-11	ELECT	22uF	20%	50V
C1512	1-104-664-11	ELECT	47uF	20%	16V
C1513	1-126-964-11	ELECT	10uF	20%	50V
C1514	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1515	1-126-964-11	ELECT	10uF	20%	50V
C1516	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1517	1-126-965-11	ELECT	22uF	20%	50V
C1518	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1519	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1520	1-126-965-11	ELECT	22uF	20%	50V
C1522	1-126-965-11	ELECT	22uF	20%	50V
C1523	1-106-347-00	MYLAR	1500PF	5%	200V
C1524	1-126-965-11	ELECT	22uF	20%	50V
C1525	1-126-965-11	ELECT	22uF	20%	50V
C1526	1-126-965-11	ELECT	22uF	20%	50V
C1527	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1529	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1531	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1533	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1535	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1537	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1539	1-104-664-11	ELECT	47uF	20%	16V
C1540	1-104-664-11	ELECT	47uF	20%	16V
C1541	1-104-664-11	ELECT	47uF	20%	16V
C1542	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1543	1-126-965-11	ELECT	22uF	20%	50V
C1544	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1545	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1546	1-126-965-11	ELECT	22uF	20%	50V
C1547	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1548	1-126-965-11	ELECT	22uF	20%	50V
C1549	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1550	1-126-965-11	ELECT	22uF	20%	50V
C1551	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1552	1-126-965-11	ELECT	22uF	20%	50V
C1553	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1554	1-126-965-11	ELECT	22uF	20%	50V
C1561	1-126-965-11	ELECT	22uF	20%	50V
C1562	1-126-965-11	ELECT	22uF	20%	50V
C1563	1-126-965-11	ELECT	22uF	20%	50V
C1564	1-126-965-11	ELECT	22uF	20%	50V
C1570	1-119-824-11	ELECT MELF	10uF	20%	50V
C1571	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1572	1-126-965-11	ELECT	22uF	20%	50V
C1573	1-106-347-00	MYLAR	1500PF	5%	200V
C1574	1-126-965-11	ELECT	22uF	20%	50V
C1575	1-126-965-11	ELECT	22uF	20%	50V
C1576	1-126-965-11	ELECT	22uF	20%	50V
C3118	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C3119	1-163-233-11	CERAMIC CHIP	18PF	5%	50V

< CONNECTOR >

CNP1301	1-784-923-11	PIN, CONNECTOR 7P
CNP1302	1-779-799-11	PIN, CONNECTOR 9P
CNP1303	1-779-977-11	PIN, CONNECTOR 6P
CNP1305	1-784-923-11	PIN, CONNECTOR 7P
CNS1301	1-784-778-11	CONNECTOR, FFC 17P
CNS1302	1-784-776-11	CONNECTOR, FFC 15P
CNS1303	1-784-780-11	CONNECTOR, FFC 19P
CNS1304	1-784-776-11	CONNECTOR, FFC 15P

< DIODE >

D1001	8-719-016-74	DIODE 1SS352-TPH3
D1002	8-719-016-74	DIODE 1SS352-TPH3
D1101	8-719-016-74	DIODE 1SS352-TPH3
D1102	8-719-016-74	DIODE 1SS352-TPH3
D1201	8-719-016-74	DIODE 1SS352-TPH3
D1202	8-719-016-74	DIODE 1SS352-TPH3
D1203	8-719-801-78	DIODE 1SS184-TE85L
D1204	8-719-801-78	DIODE 1SS184-TE85L
D1205	8-719-801-78	DIODE 1SS184-TE85L
D1206	8-719-016-74	DIODE 1SS352-TPH3
D1207	8-719-016-74	DIODE 1SS352-TPH3
D1208	8-719-053-18	DIODE 1SR154-400TE-25
D1209	8-719-801-78	DIODE 1SS184-TE85L
D1210	8-719-016-74	DIODE 1SS352-TPH3
D1211	8-719-053-18	DIODE 1SR154-400TE-25
D1501	8-719-820-05	DIODE 1SS181-TE85L
D1504	8-719-820-05	DIODE 1SS181-TE85L
D1505	8-719-820-05	DIODE 1SS181-TE85L

< EARTH TERMINAL >

*	EB1001	1-537-738-21	TERMINAL, EARTH
*	EB1002	1-537-738-21	TERMINAL, EARTH

< FERRITE BEAD >

FB1101	1-414-813-11	FERRITE 0UH
FB1102	1-414-813-11	FERRITE 0UH
FB1103	1-414-813-11	FERRITE 0UH
FB1301	1-414-813-11	FERRITE 0UH
FB1302	1-414-813-11	FERRITE 0UH
FB1401	1-414-813-11	FERRITE 0UH
FB1402	1-414-813-11	FERRITE 0UH
FB1403	1-414-813-11	FERRITE 0UH

< IC >

IC1001	8-749-923-05	TORX178A (OPT)
IC1005	8-759-926-17	IC TC74HC153AF(EL)
IC1006	8-759-234-20	IC TC7S08F(TE85R)
IC1007	8-759-242-70	IC TC7WU04F(TE12R)
IC1101	8-759-581-19	IC LC89055W
IC1102	8-759-242-70	IC TC7WU04F(TE12R)
IC1201	8-759-580-51	IC MB90573PFV-G-190-BND
IC1202	8-759-186-30	IC TC74VHC14F(EL)
IC1203	8-759-445-59	IC BA033T
IC1204	8-759-450-47	IC BA05T

Ref. No.	Part No.	Description			Remarks
IC1205	8-759-231-53	IC M5F7805L			
IC1206	8-759-544-04	IC NJM2103M-TE2			
IC1301	8-759-582-68	IC CXD9511Q			
IC1401	8-752-391-87	IC CXD2712R			
IC1402	8-759-538-16	IC IDT71V016S15PH-AUTL			
IC1403	8-759-524-32	IC TC74VHC367FT(EL)			
IC1404	8-759-242-70	IC TC7WU04F(TE12R)			
IC1501	8-759-231-53	IC M5F7805L			
IC1502	8-759-590-10	IC TC9273F-012(EL)			
IC1503	8-759-581-18	IC AK4526A			
IC1504	8-759-636-55	IC M5218AFP-T1			
IC1505	8-759-636-55	IC M5218AFP-T1			
IC1506	8-759-636-55	IC M5218AFP-T1			
IC1507	8-759-636-55	IC M5218AFP-T1			
IC1508	8-759-636-55	IC M5218AFP-T1			
IC1509	8-759-636-55	IC M5218AFP-T1			
IC1510	8-759-636-55	IC M5218AFP-T1			
IC1554	8-759-636-55	IC M5218AFP-T1			
		< JACK >			
J1001	1-784-431-11	JACK, PIN 1P (COAX)			
J1002	1-785-536-11	JACK, PIN (6P) (5.1CH INPUT)			
		< JANPER WIRE >			
JW10	1-216-295-91	SHORT 0			
JW11	1-216-295-91	SHORT 0			
JW12	1-216-295-91	SHORT 0			
JW13	1-216-295-91	SHORT 0			
JW14	1-216-295-91	SHORT 0			
JW15	1-216-295-91	SHORT 0			
JW16	1-216-295-91	SHORT 0			
JW17	1-216-295-91	SHORT 0			
		< TRANSISTOR >			
Q1201	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q1202	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q1203	8-729-027-43	TRANSISTOR RT1N141C-TP-1			
Q1204	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q1205	8-729-048-78	TRANSISTOR 2SD1733-TL-QR			
Q1501	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16			
Q1502	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16			
Q1503	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16			
Q1504	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16			
Q1505	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16			
Q1506	8-729-107-46	TRANSISTOR 2SC3624A-T1L15L16			
Q1507	8-729-027-23	TRANSISTOR RT1P141C-TP-1			
		< RESISTOR >			
R1001	1-216-025-91	RES,CHIP	100	5%	1/10W
R1005	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1006	1-216-025-91	RES,CHIP	100	5%	1/10W
R1007	1-216-025-91	RES,CHIP	100	5%	1/10W
R1008	1-216-022-00	METAL CHIP	75	5%	1/10W
R1009	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1010	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1011	1-216-025-91	RES,CHIP	100	5%	1/10W
R1012	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1013	1-216-115-00	METAL CHIP	560K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1014	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1015	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1016	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1017	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1018	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1019	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1021	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1022	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1101	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1102	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1103	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1104	1-216-022-00	METAL CHIP	75	5%	1/10W
R1105	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1106	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1107	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1108	1-216-025-91	RES,CHIP	100	5%	1/10W
R1109	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1110	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1111	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1112	1-216-025-91	RES,CHIP	100	5%	1/10W
R1113	1-216-025-91	RES,CHIP	100	5%	1/10W
R1114	1-216-025-91	RES,CHIP	100	5%	1/10W
R1115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1131	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1160	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1192	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1193	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1201	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1202	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1203	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1204	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1205	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1206	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1207	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1208	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1209	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1210	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1211	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1213	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1214	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1215	1-216-025-91	RES,CHIP	100	5%	1/10W
R1216	1-216-025-91	RES,CHIP	100	5%	1/10W
R1217	1-216-025-91	RES,CHIP	100	5%	1/10W
R1218	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1219	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1221	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1223	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1224	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1225	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1226	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1228	1-216-075-00	METAL CHIP	12K	5%	1/10W
R1229	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1230	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1231	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1232	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1233	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1234	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1235	1-216-065-91	RES,CHIP	4.7K	5%	1/10W

DIGITAL

Ref. No.	Part No.	Description			Remarks
R1236	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1237	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1238	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1239	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1240	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1241	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1242	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1243	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1244	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1245	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1246	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1247	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1248	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1249	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1250	1-216-025-91	RES,CHIP	100	5%	1/10W
R1252	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1253	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1254	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1255	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1256	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1257	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1258	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1259	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1261	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1262	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1263	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1264	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1265	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1266	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1268	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1269	1-216-093-91	RES,CHIP	68K	5%	1/10W
R1270	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1271	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1272	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1273	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1274	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1275	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1276	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1277	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1278	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1279	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1280	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1281	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1282	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1283	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1284	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1285	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1286	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1287	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1288	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1289	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1290	1-216-093-91	RES,CHIP	68K	5%	1/10W
R1291	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1292	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1294	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1301	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1302	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1401	1-216-025-91	RES,CHIP	100	5%	1/10W
R1402	1-216-025-91	RES,CHIP	100	5%	1/10W
R1403	1-216-025-91	RES,CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1404	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1405	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1406	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1407	1-216-025-91	RES,CHIP	100	5%	1/10W
R1408	1-216-025-91	RES,CHIP	100	5%	1/10W
R1409	1-216-025-91	RES,CHIP	100	5%	1/10W
R1410	1-216-295-91	SHORT	0		
R1412	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1413	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1414	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1415	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1416	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1417	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1418	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1419	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1420	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1421	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1422	1-216-025-91	RES,CHIP	100	5%	1/10W
R1501	1-216-295-91	SHORT	0		
R1502	1-216-295-91	SHORT	0		
R1503	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1504	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1505	1-216-009-91	RES,CHIP	22	5%	1/10W
R1506	1-216-009-91	RES,CHIP	22	5%	1/10W
R1508	1-216-033-00	METAL CHIP	220	5%	1/10W
R1509	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1510	1-216-033-00	METAL CHIP	220	5%	1/10W
R1511	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1512	1-216-033-00	METAL CHIP	220	5%	1/10W
R1513	1-216-033-00	METAL CHIP	220	5%	1/10W
R1514	1-216-033-00	METAL CHIP	220	5%	1/10W
R1515	1-216-033-00	METAL CHIP	220	5%	1/10W
R1516	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1517	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1518	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1519	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1522	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1523	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1524	1-216-037-00	METAL CHIP	330	5%	1/10W
R1525	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1526	1-216-037-00	METAL CHIP	330	5%	1/10W
R1527	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1528	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1529	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1530	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1532	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1533	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1534	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1535	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1536	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1537	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1538	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1539	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1540	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1541	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1542	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1543	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1544	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1545	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1546	1-216-089-91	RES,CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1547	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1548	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1549	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1550	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1551	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1552	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1553	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1554	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1555	1-216-295-91	SHORT	0		
R1556	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1557	1-216-295-91	SHORT	0		
R1558	1-216-025-91	RES,CHIP	100	5%	1/10W
R1559	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1560	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1561	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1562	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1563	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1564	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1565	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1567	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1568	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1569	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1570	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1571	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1572	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1573	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1574	1-216-037-00	METAL CHIP	330	5%	1/10W
R1575	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1576	1-216-037-00	METAL CHIP	330	5%	1/10W
R1577	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1578	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1579	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1580	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1581	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1582	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1583	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1584	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1585	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1586	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1587	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1588	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1589	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1590	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1591	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1594	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1595	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1596	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1597	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1598	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1599	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3121	1-216-043-91	RES,CHIP	560	5%	1/10W
		< VIBRATOR >			
X1201	1-781-356-21	VIBRATOR, CERAMIC(16MHz)			
X1401	1-781-464-21	VIBRATOR, CERAMIC(10MHz)			
X3501	1-781-465-21	VIBRATOR, CRYSTAL(12.288MHz)			

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Ref. No.	Part No.	Description			Remarks
*	A-4419-393-A	DISPLAY BOARD, COMPLETE (US,CND)			
		**********			
*	A-4419-395-A	DISPLAY BOARD, COMPLETE (AEP)			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-990-797-01	HOLDER (FL)			
		< CAPACITOR >			
C101	1-126-786-11	ELECT	47uF	20%	16V
C103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C104	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C105	1-104-905-11	CAPACITOR	0.22F		5.5V
C106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C107	1-126-786-11	ELECT	47uF	20%	16V
C108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C109	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C110	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C114	1-126-795-11	ELECT	10uF	20%	50V
C115	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C116	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C119	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C120	1-126-786-11	ELECT	47uF	20%	16V
C121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C122	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CNN1	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P (US,CND)			
CNP104	1-784-919-11	CONNECTOR, PC BOARD (PLUG) 5P			
* CNP105	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CNP106	1-784-919-11	CONNECTOR, PC BOARD (PLUG) 5P			
CNP110	1-785-821-11	CONNECTOR, BOARD TO BOARD 6P			
CNP111	1-785-821-11	CONNECTOR, BOARD TO BOARD 6P			
CNS101	1-569-308-11	SOCKET, CONNECTOR (L TYRE) 19P			
CNS103	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
		< DIODE >			
D102	8-719-053-18	DIODE 1SR154-400TE-25			
D103	8-719-016-74	DIODE 1SS352-TPH3			
D104	8-719-075-59	DIODE SELS5B23CTP15 (DCS)			
D105	8-719-313-45	DIODE SEL6810A-TH10 (EQUALIZER)			
D106	8-719-313-45	DIODE SEL6810A-TH10 (BASS BOOST)			
D107	8-719-016-74	DIODE 1SS352-TPH3			
D108	8-719-016-74	DIODE 1SS352-TPH3			
D113	8-719-016-74	DIODE 1SS352-TPH3 (AEP)			
D180	8-719-016-74	DIODE 1SS352-TPH3			
		< FLUORESCENT INDICATOR TUBE >			
FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-759-459-85	IC NJL63H400A			
IC102	8-759-577-32	IC MB90553APF-G-138-BND			
IC103	8-759-075-35	IC TD62C950RF			
IC104	8-759-389-51	IC MSC1164GS-KR1			
IC105	8-759-589-67	IC BA6208F-E2			

Ref. No.	Part No.	Description			Remarks
		< TRANSISTOR >			
Q101	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L			
Q102	8-729-027-23	TRANSISTOR RT1P141C-TP-1			
Q108	8-729-027-43	TRANSISTOR RT1N141C-TP-1			
Q109	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
QQ1	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L (US,CND)			
		< RESISTOR >			
R101	1-216-049-91	RES,CHIP	1K	5%	1/10W
R102	1-216-049-91	RES,CHIP	1K	5%	1/10W
R103	1-216-049-91	RES,CHIP	1K	5%	1/10W
R104	1-216-037-00	METAL CHIP	330	5%	1/10W
R105	1-216-049-91	RES,CHIP	1K	5%	1/10W
R106	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R107	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R108	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R109	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R110	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R111	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R112	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-049-91	RES,CHIP	1K	5%	1/10W
R117	1-216-049-91	RES,CHIP	1K	5%	1/10W
R118	1-216-049-91	RES,CHIP	1K	5%	1/10W
R119	1-216-049-91	RES,CHIP	1K	5%	1/10W
R120	1-216-049-91	RES,CHIP	1K	5%	1/10W
R121	1-216-081-00	METAL CHIP	22K	5%	1/10W
R122	1-216-081-00	METAL CHIP	22K	5%	1/10W
R123	1-216-001-00	METAL CHIP	10	5%	1/10W
R124	1-216-073-00	METAL CHIP	10K	5%	1/10W
R125	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R126	1-216-073-00	METAL CHIP	10K	5%	1/10W
R127	1-216-037-00	METAL CHIP	330	5%	1/10W
R129	1-216-025-91	RES,CHIP	100	5%	1/10W
R130	1-216-097-91	RES,CHIP	100K	5%	1/10W
R137	1-216-073-00	METAL CHIP	10K	5%	1/10W
R138	1-216-049-91	RES,CHIP	1K	5%	1/10W
R141	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R142	1-216-049-91	RES,CHIP	1K	5%	1/10W (AEP)
R143	1-216-073-00	METAL CHIP	10K	5%	1/10W
R144	1-216-001-00	METAL CHIP	10	5%	1/10W
R145	1-216-089-91	RES,CHIP	47K	5%	1/10W
R146	1-216-081-00	METAL CHIP	22K	5%	1/10W
R147	1-216-089-91	RES,CHIP	47K	5%	1/10W
R148	1-249-385-11	CARBON	2.2	5%	1/6W F
R149	1-249-385-11	CARBON	2.2	5%	1/6W F
R190	1-216-097-91	RES,CHIP	100K	5%	1/10W
R191	1-216-097-91	RES,CHIP	100K	5%	1/10W
R192	1-216-097-91	RES,CHIP	100K	5%	1/10W
RR1	1-216-073-00	METAL CHIP	10K	5%	1/10W (US,CND)
RR24	1-216-089-91	RES,CHIP	47K	5%	1/10W
RR25	1-216-089-91	RES,CHIP	47K	5%	1/10W
RR26	1-216-089-91	RES,CHIP	47K	5%	1/10W
RR27	1-216-089-91	RES,CHIP	47K	5%	1/10W
RR28	1-216-089-91	RES,CHIP	47K	5%	1/10W
RR51	1-216-029-00	METAL CHIP	150	5%	1/10W
RR52	1-216-029-00	METAL CHIP	150	5%	1/10W
RR53	1-216-029-00	METAL CHIP	150	5%	1/10W
RR54	1-216-037-00	METAL CHIP	330	5%	1/10W
RR55	1-216-037-00	METAL CHIP	330	5%	1/10W
		< SWITCH >			
S148	1-771-349-21	SWITCH, KEYBOARD (DISPLAY)			
S149	1-771-349-21	SWITCH, KEYBOARD (DIMMER)			
		< VIBRATOR >			
X101	1-781-356-21	VIBRATOR, CERAMIC (16MHz)			
**********					
*	1-673-349-11	H.P BOARD			
		*********			
		< CAPACITOR >			
CNP751	1-779-978-11	PIN, CONNECTOR 3P			
		< EARTH TERMINAL >			
* EB701	1-537-738-21	TERMINAL, EARTH			
		< JACK >			
J701	1-750-735-11	JACK (LARGE TYPE)(PHONESE)			
**********					
	1-673-940-11	JOINT BOARD			
		**********			
		< CONNECTOR >			
CNP211	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P			
CNP212	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P			
**********					
*	1-673-350-11	LED BOARD			
		**********			
		< CAPACITOR >			
C125	1-165-319-11	CERAMIC CHIP	0.1uF	50V	
		< LED >			
D100	8-719-070-83	LED SELU5E20C-TP15 (MULTI CANNEL DECORDER)			
**********					
*	A-4419-379-A	MAIN BOARD, COMPLETE (US)			
		**********			
*	A-4419-380-A	MAIN BOARD, COMPLETE (CND)			
		**********			
*	A-4419-382-A	MAIN BOARD, COMPLETE (AEP)			
		**********			
		< CAPACITOR >			
C301	1-126-961-11	ELECT	2.2uF	20%	50V
C302	1-162-283-31	CERAMIC	120PF	10%	50V (AEP)
C303	1-126-934-11	ELECT	220uF	20%	10V
C304	1-125-896-91	MYLAR	0.0091uF	5%	50V
C305	1-136-159-00	FILM	0.033uF	5%	50V

Ref. No.	Part No.	Description			Remarks
C306	1-126-961-11	ELECT	2.2uF	20%	50V
C307	1-164-070-11	CERAMIC	100PF	5%	50V
C308	1-162-286-31	CERAMIC	220PF	10%	50V
C310	1-162-294-31	CERAMIC	0.001uF	10%	50V
C311	1-126-965-11	ELECT	22uF	20%	50V
C331	1-126-965-11	ELECT	22uF	20%	50V
C351	1-126-961-11	ELECT	2.2uF	20%	50V
C352	1-162-283-31	CERAMIC	120PF	10%	50V (AEP)
C353	1-126-934-11	ELECT	220uF	20%	10V
C354	1-125-896-91	MYLAR	0.0091uF	5%	50V
C355	1-136-159-00	FILM	0.033uF	5%	50V
C356	1-126-961-11	ELECT	2.2uF	20%	50V
C357	1-164-070-11	CERAMIC	100PF	5%	50V
C358	1-162-286-31	CERAMIC	220PF	10%	50V
C360	1-162-294-31	CERAMIC	0.001uF	10%	50V
C361	1-126-965-11	ELECT	22uF	20%	50V
C362	1-126-965-11	ELECT	22uF	20%	50V
C388	1-126-933-11	ELECT	100uF	20%	16V
C389	1-126-933-11	ELECT	100uF	20%	16V
C392	1-104-664-11	ELECT	47uF	20%	16V
C394	1-104-664-11	ELECT	47uF	20%	16V
C395	1-162-282-31	CERAMIC	100PF	10%	50V
C396	1-104-664-11	ELECT	47uF	20%	16V
C397	1-104-664-11	ELECT	47uF	20%	16V
C398	1-162-282-31	CERAMIC	100PF	10%	50V
C416	1-126-965-11	ELECT	22uF	20%	50V
C417	1-126-965-11	ELECT	22uF	20%	50V
C418	1-126-965-11	ELECT	22uF	20%	50V
C419	1-162-282-31	CERAMIC	100PF	10%	50V
C466	1-126-965-11	ELECT	22uF	20%	50V
C467	1-126-965-11	ELECT	22uF	20%	50V
C468	1-126-965-11	ELECT	22uF	20%	50V
C481	1-136-173-00	FILM	0.47uF	5%	50V
C482	1-136-173-00	FILM	0.47uF	5%	50V
C496	1-126-933-11	ELECT	100uF	20%	16V
C497	1-126-933-11	ELECT	100uF	20%	16V
C499	1-104-664-11	ELECT	47uF	20%	16V
C501	1-126-965-11	ELECT	22uF	20%	50V
C502	1-102-108-00	CERAMIC	150PF	10%	50V
C503	1-102-233-00	CERAMIC	33PF	10%	500V
C504	1-107-586-11	CERAMIC	6PF	0.5PF	500V
C505	1-126-934-11	ELECT	220uF	20%	10V
C506	1-106-351-00	MYLAR	2200PF	5%	200V
C507	1-106-351-00	MYLAR	2200PF	5%	200V
C520	1-104-664-11	ELECT	47uF	20%	16V
C521	1-107-597-11	CERAMIC	22PF	10%	500V
C522	1-107-597-11	CERAMIC	22PF	10%	500V
C523	1-162-286-31	CERAMIC	220PF	10%	50V
C524	1-126-964-11	ELECT	10uF	20%	50V
C525	1-136-157-00	FILM	0.022uF	5%	50V
C526	1-136-153-00	FILM	0.01uF	5%	50V
C539	1-164-079-11	CERAMIC	330PF	10%	50V
C549	1-102-934-00	CERAMIC	1.0PF	0.25PF	50V
C551	1-126-965-11	ELECT	22uF	20%	50V
C552	1-102-108-00	CERAMIC	150PF	10%	50V

Ref. No.	Part No.	Description			Remarks
C553	1-102-233-00	CERAMIC	33PF	10%	500V
C554	1-107-586-11	CERAMIC	6PF	0.5PF	500V
C555	1-126-934-11	ELECT	220uF	20%	10V
C556	1-106-351-00	MYLAR	2200PF	5%	200V
C557	1-106-351-00	MYLAR	2200PF	5%	200V
C570	1-104-664-11	ELECT	47uF	20%	16V
C571	1-107-597-11	CERAMIC	22PF	10%	500V
C572	1-107-597-11	CERAMIC	22PF	10%	500V
C573	1-162-286-31	CERAMIC	220PF	10%	50V
C574	1-126-964-11	ELECT	10uF	20%	50V
C575	1-136-157-00	FILM	0.022uF	5%	50V
C576	1-136-153-00	FILM	0.01uF	5%	50V
C580	1-162-282-31	CERAMIC	100PF	10%	50V
C589	1-164-079-11	CERAMIC	330PF	10%	50V
C590	1-126-935-11	ELECT	470uF	20%	6.3V (US,CND)
C590	1-128-834-11	ELECT	470uF	20%	10V (AEP)
C594	1-128-560-11	ELECT	22uF	20%	100V
C595	1-128-560-11	ELECT	22uF	20%	100V
C598	1-126-965-11	ELECT	22uF	20%	50V
C599	1-102-934-00	CERAMIC	1.0PF	0.25PF	50V
C601	1-126-965-11	ELECT	22uF	20%	50V
C602	1-102-108-00	CERAMIC	150PF	10%	50V
C603	1-102-233-00	CERAMIC	33PF	10%	500V
C604	1-107-586-11	CERAMIC	6PF	0.5PF	500V
C605	1-126-934-11	ELECT	220uF	20%	10V
C606	1-106-351-00	MYLAR	2200PF	5%	200V
C607	1-106-351-00	MYLAR	2200PF	5%	200V
C620	1-104-664-11	ELECT	47uF	20%	16V
C621	1-107-597-11	CERAMIC	22PF	10%	500V
C622	1-107-597-11	CERAMIC	22PF	10%	500V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C624	1-126-964-11	ELECT	10uF	20%	50V
C625	1-136-157-00	FILM	0.022uF	5%	50V
C626	1-136-153-00	FILM	0.01uF	5%	50V
C639	1-164-079-11	CERAMIC	330PF	10%	50V
C649	1-102-934-00	CERAMIC	1.0PF	0.25PF	50V
C651	1-126-965-11	ELECT	22uF	20%	50V
C652	1-102-108-00	CERAMIC	150PF	10%	50V
C653	1-102-233-00	CERAMIC	33PF	10%	500V
C654	1-107-586-11	CERAMIC	6PF	0.5PF	500V
C655	1-126-934-11	ELECT	220uF	20%	10V
C680	1-162-282-31	CERAMIC	100PF	10%	50V
C689	1-164-079-11	CERAMIC	330PF	10%	50V
C699	1-102-934-00	CERAMIC	1.0PF	0.25PF	50V
C801	1-136-153-00	FILM	0.01uF	5%	50V
C802	1-136-153-00	FILM	0.01uF	5%	50V
C803	1-136-153-00	FILM	0.01uF	5%	50V
C804	1-136-153-00	FILM	0.01uF	5%	50V
C811	1-126-953-11	ELECT	2200uF	20%	35V
C812	1-126-952-11	ELECT	1000uF	20%	35V
C813	1-126-937-11	ELECT	4700uF	20%	16V
C993	1-126-960-11	ELECT	1uF	20%	50V
CC04	1-164-070-11	CERAMIC	100PF	5%	50V
CC05	1-164-070-11	CERAMIC	100PF	5%	50V
CC06	1-164-070-11	CERAMIC	100PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remarks
CC08	1-164-070-11	CERAMIC	100PF	5%	50V
CC09	1-164-070-11	CERAMIC	100PF	5%	50V
CC10	1-164-070-11	CERAMIC	100PF	5%	50V
CC11	1-164-070-11	CERAMIC	100PF	5%	50V
CC12	1-164-070-11	CERAMIC	100PF	5%	50V
CC13	1-164-070-11	CERAMIC	100PF	5%	50V
CC54	1-164-070-11	CERAMIC	100PF	5%	50V
CC55	1-164-070-11	CERAMIC	100PF	5%	50V
CC56	1-164-070-11	CERAMIC	100PF	5%	50V
CC58	1-164-070-11	CERAMIC	100PF	5%	50V
CC59	1-164-070-11	CERAMIC	100PF	5%	50V
CC60	1-164-070-11	CERAMIC	100PF	5%	50V
CC61	1-164-070-11	CERAMIC	100PF	5%	50V
CC62	1-164-070-11	CERAMIC	100PF	5%	50V
CC63	1-164-070-11	CERAMIC	100PF	5%	50V
		< CONNECTOR >			
CNP303	1-779-977-11	PIN, CONNECTOR 6P			
CNP601	1-785-104-11	PIN, CONNECTOR 6P			
CNP602	1-785-102-21	PIN, CONNECTOR 4P			
CNP751	1-779-978-11	PIN, CONNECTOR 3P			
CNP801	1-785-102-11	PIN, CONNECTOR 4P			
CNP802	1-785-103-11	PIN, CONNECTOR 5P			
CNS306	1-784-778-11	CONNECTOR, FFC 17P			
		< DIODE >			
D490	8-719-210-21	DIODE 11EQS04-NTA2B			
D491	8-719-210-21	DIODE 11EQS04-NTA2B			
D494	8-719-210-21	DIODE 11EQS04-NTA2B			
D495	8-719-210-21	DIODE 11EQS04-NTA2B			
D496	8-719-210-21	DIODE 11EQS04-NTA2B			
D497	8-719-210-21	DIODE 11EQS04-NTA2B			
D501	8-719-911-19	DIODE 1SS133T-72			
D502	8-719-109-51	DIODE MTZJ-T-72-2.2			
D503	8-719-109-51	DIODE MTZJ-T-72-2.2			
D504	8-719-911-19	DIODE 1SS133T-72			
D505	8-719-911-19	DIODE 1SS133T-72			
D506	8-719-911-19	DIODE 1SS133T-72			
D545	8-719-911-19	DIODE 1SS133T-72			
D546	8-719-911-19	DIODE 1SS133T-72			
D547	8-719-911-19	DIODE 1SS133T-72			
D548	8-719-911-19	DIODE 1SS133T-72			
D549	8-719-911-19	DIODE 1SS133T-72			
D551	8-719-911-19	DIODE 1SS133T-72			
D552	8-719-109-51	DIODE MTZJ-T-72-2.2			
D553	8-719-109-51	DIODE MTZJ-T-72-2.2			
D554	8-719-911-19	DIODE 1SS133T-72			
D555	8-719-911-19	DIODE 1SS133T-72			
D556	8-719-911-19	DIODE 1SS133T-72			
D598	8-719-911-19	DIODE 1SS133T-72			
D599	8-719-911-19	DIODE 1SS133T-72			
D601	8-719-911-19	DIODE 1SS133T-72			
D602	8-719-109-51	DIODE MTZJ-T-72-2.2			
D603	8-719-109-51	DIODE MTZJ-T-72-2.2			
D604	8-719-911-19	DIODE 1SS133T-72			
D605	8-719-911-19	DIODE 1SS133T-72			
D606	8-719-911-19	DIODE 1SS133T-72			
D607	8-719-911-19	DIODE 1SS133T-72			
D608	8-719-911-19	DIODE 1SS133T-72			
D649	8-719-911-19	DIODE 1SS133T-72			
D681	8-719-911-19	DIODE 1SS133T-72			

Ref. No.	Part No.	Description	Remarks
D698	8-719-911-19	DIODE 1SS133T-72	
D802	8-719-024-99	DIODE 11ES2-NTA2B	
D803	8-719-024-99	DIODE 11ES2-NTA2B	
D804	8-719-024-99	DIODE 11ES2-NTA2B	
D805	8-719-024-99	DIODE 11ES2-NTA2B	
D806	8-719-024-99	DIODE 11ES2-NTA2B	
D807	8-719-024-99	DIODE 11ES2-NTA2B	
D808	8-719-024-99	DIODE 11ES2-NTA2B	
D809	8-719-024-99	DIODE 11ES2-NTA2B	
		< EARTH TERMINAL >	
* EB301	1-537-738-21	TERMINAL, EARTH	
* EB302	1-537-738-21	TERMINAL, EARTH	
		< FUSE >	
⚠F803	1-532-504-51	FUSE TIME LAG 4A/250V (AEP)	
⚠F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) 4A/125V (US,CND)	
⚠F804	1-532-504-51	FUSE TIME LAG 4A/250V (AEP)	
⚠F805	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) 4A/125V (US,CND)	
⚠F805	1-532-504-51	FUSE TIME LAG 4A/250V (AEP)	
		< IC >	
IC301	8-759-582-64	IC TC9273N-004	
IC302	8-759-636-74	IC M5218AP-22	
IC303	8-759-582-65	IC TC9273N-014	
IC304	8-759-636-74	IC M5218AP-22	
IC401	8-759-231-59	IC M5F7815L	
IC402	8-759-245-87	IC M5F7915L	
IC404	8-759-708-05	IC NJM78L05A-T3	
IC414	8-759-534-63	IC TC9299P	
IC415	8-759-534-63	IC TC9299P	
IC416	8-759-534-63	IC TC9299P	
IC501	8-759-326-52	IC uPC2581V	
IC601	8-759-326-52	IC uPC2581V	
		< JACK >	
J301	1-784-429-11	JACK, PIN 4P (PHONO/CD)	
J302	1-784-429-11	JACK, PIN 4P (MD/TAPE)	
J304	1-784-920-11	JACK, PIN 6P (TV/LD/DVD/VIDEO 2)	
J305	1-784-920-11	JACK, PIN 6P (VIDEO 2/VIDEO 1)	
		< COIL >	
L501	1-411-906-11	COIL, AIR-CORE (AEP)	
L501	1-420-872-00	COIL, AIR-CORE (US,CND)	
L551	1-411-906-11	COIL, AIR-CORE (AEP)	
L551	1-420-872-00	COIL, AIR-CORE (US,CND)	
		< TRANSISTOR >	
Q501	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q503	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q504	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q505	8-729-026-08	TRANSISTOR 2SC4495	
Q506	8-749-010-25	TRANSISTOR MN2488-OPY-M	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remarks
Q507	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q508	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q509	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q510	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q511	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q546	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q547	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q548	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q549	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q554	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q555	8-729-026-08	TRANSISTOR 2SC4495	
Q556	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q557	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q558	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q559	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q560	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q561	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q596	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q598	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q599	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q601	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q604	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q605	8-729-026-08	TRANSISTOR 2SC4495	
Q606	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q607	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q608	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q609	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q610	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q611	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q613	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q645	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q681	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q698	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q745	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q992	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	

< RESISTOR >

Ref. No.	Part No.	Description			Remarks
R301	1-249-401-11	CARBON	47	5%	1/4W F (US,CND)
R301	1-249-425-11	CARBON	4.7K	5%	1/4W F (AEP)
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-440-11	CARBON	82K	5%	1/4W
R304	1-249-408-11	CARBON	180	5%	1/4W F
R305	1-249-428-11	CARBON	8.2K	5%	1/4W F
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-247-807-31	CARBON	100	5%	1/4W
R308	1-249-441-11	CARBON	100K	5%	1/4W
R309	1-249-413-11	CARBON	470	5%	1/4W F
R310	1-249-417-11	CARBON	1K	5%	1/4W F
R311	1-249-417-11	CARBON	1K	5%	1/4W F
R312	1-249-417-11	CARBON	1K	5%	1/4W F
R316	1-249-417-11	CARBON	1K	5%	1/4W F
R317	1-249-417-11	CARBON	1K	5%	1/4W F
R318	1-249-417-11	CARBON	1K	5%	1/4W F
R319	1-249-417-11	CARBON	1K	5%	1/4W F
R320	1-249-417-11	CARBON	1K	5%	1/4W F
R325	1-249-417-11	CARBON	1K	5%	1/4W F
R331	1-247-887-00	CARBON	220K	5%	1/4W
R335	1-247-887-00	CARBON	220K	5%	1/4W
R344	1-247-807-31	CARBON	100	5%	1/4W
R345	1-247-807-31	CARBON	100	5%	1/4W
R346	1-249-397-11	CARBON	22	5%	1/4W F
R347	1-249-397-11	CARBON	22	5%	1/4W F
R351	1-249-401-11	CARBON	47	5%	1/4W F (US,CND)
R351	1-249-425-11	CARBON	4.7K	5%	1/4W F (AEP)
R352	1-249-441-11	CARBON	100K	5%	1/4W
R353	1-249-440-11	CARBON	82K	5%	1/4W
R354	1-249-408-11	CARBON	180	5%	1/4W F
R355	1-249-428-11	CARBON	8.2K	5%	1/4W F
R356	1-249-441-11	CARBON	100K	5%	1/4W
R357	1-247-807-31	CARBON	100	5%	1/4W
R358	1-249-441-11	CARBON	100K	5%	1/4W
R359	1-249-413-11	CARBON	470	5%	1/4W F
R360	1-249-417-11	CARBON	1K	5%	1/4W F
R361	1-249-417-11	CARBON	1K	5%	1/4W F
R362	1-249-417-11	CARBON	1K	5%	1/4W F
R366	1-249-417-11	CARBON	1K	5%	1/4W F
R367	1-249-417-11	CARBON	1K	5%	1/4W F
R368	1-249-417-11	CARBON	1K	5%	1/4W F
R369	1-249-417-11	CARBON	1K	5%	1/4W F
R370	1-249-417-11	CARBON	1K	5%	1/4W F
R375	1-249-417-11	CARBON	1K	5%	1/4W F
R381	1-247-887-00	CARBON	220K	5%	1/4W
R385	1-247-887-00	CARBON	220K	5%	1/4W
R386	1-249-437-11	CARBON	47K	5%	1/4W
R391	1-249-437-11	CARBON	47K	5%	1/4W
R394	1-249-397-11	CARBON	22	5%	1/4W F
R395	1-249-397-11	CARBON	22	5%	1/4W F
R396	1-249-417-11	CARBON	1K	5%	1/4W F
R398	1-249-417-11	CARBON	1K	5%	1/4W F
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-439-11	CARBON	68K	5%	1/4W
R504	1-247-843-11	CARBON	3.3K	5%	1/4W
R505	1-249-437-11	CARBON	47K	5%	1/4W
R509	1-247-807-31	CARBON	100	5%	1/4W
R520	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-249-422-11	CARBON	2.7K	5%	1/4W F
R522	1-249-433-11	CARBON	22K	5%	1/4W
R523	1-249-442-11	CARBON	510	5%	1/4W
⚠R524	1-249-408-11	CARBON	180	5%	1/4W F
⚠R525	1-249-408-11	CARBON	180	5%	1/4W F
⚠R526	1-234-182-11	ENCAPSULATED COMPONENT			
R527	1-240-855-91	CARBON	6.2K	5%	1/4W
R528	1-249-425-11	CARBON	4.7K	5%	1/4W F
R529	1-247-866-11	CARBON	30K	5%	1/4W
R530	1-249-421-11	CARBON	2.2K	5%	1/4W F
R531	1-249-433-11	CARBON	22K	5%	1/4W
R532	1-249-437-11	CARBON	47K	5%	1/4W
⚠R533	1-249-393-11	CARBON	10	5%	1/4W F
⚠R534	1-249-389-11	CARBON	4.7	5%	1/4W F
R535	1-249-431-11	CARBON	15K	5%	1/4W
R539	1-249-427-11	CARBON	6.8K	5%	1/4W F

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MAIN

Ref. No.	Part No.	Description			Remarks
R540	1-249-417-11	CARBON	1K	5%	1/4W F
R541	1-249-429-11	CARBON	10K	5%	1/4W
R542	1-249-429-11	CARBON	10K	5%	1/4W
R547	1-249-425-11	CARBON	4.7K	5%	1/4W F
R548	1-249-429-11	CARBON	10K	5%	1/4W
⚠R549	1-249-393-11	CARBON	10	5%	1/4W F
R551	1-249-417-11	CARBON	1K	5%	1/4W F
R552	1-249-439-11	CARBON	68K	5%	1/4W
R553	1-249-439-11	CARBON	68K	5%	1/4W
R554	1-247-843-11	CARBON	3.3K	5%	1/4W
R555	1-247-881-00	CARBON	120K	5%	1/4W
R556	1-247-881-00	CARBON	120K	5%	1/4W
R559	1-247-807-31	CARBON	100	5%	1/4W
R570	1-249-429-11	CARBON	10K	5%	1/4W
R571	1-249-422-11	CARBON	2.7K	5%	1/4W F
R572	1-249-433-11	CARBON	22K	5%	1/4W
R573	1-249-442-11	CARBON	510	5%	1/4W
⚠R574	1-249-408-11	CARBON	180	5%	1/4W F
⚠R575	1-249-408-11	CARBON	180	5%	1/4W F
⚠R576	1-234-182-11	ENCAPSULATED COMPONENT			
R577	1-240-855-91	CARBON	6.2K	5%	1/4W
R578	1-249-425-11	CARBON	4.7K	5%	1/4W F
R579	1-247-866-11	CARBON	30K	5%	1/4W
R580	1-249-421-11	CARBON	2.2K	5%	1/4W F
R581	1-249-433-11	CARBON	22K	5%	1/4W
R582	1-249-437-11	CARBON	47K	5%	1/4W
⚠R583	1-249-393-11	CARBON	10	5%	1/4W F
⚠R584	1-249-389-11	CARBON	4.7	5%	1/4W F
R585	1-249-431-11	CARBON	15K	5%	1/4W
R586	1-249-429-11	CARBON	10K	5%	1/4W
R587	1-249-425-11	CARBON	4.7K	5%	1/4W F
R588	1-249-393-11	CARBON	10	5%	1/4W F
R590	1-249-433-11	CARBON	22K	5%	1/4W
R592	1-249-381-11	CARBON	1	5%	1/4W F
R593	1-249-381-11	CARBON	1	5%	1/4W F
R594	1-249-425-11	CARBON	4.7K	5%	1/4W F
R595	1-249-419-11	CARBON	1.5K	5%	1/4W F
R596	1-249-431-11	CARBON	15K	5%	1/4W
R597	1-249-419-11	CARBON	1.5K	5%	1/4W F
R599	1-249-431-11	CARBON	15K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-439-11	CARBON	68K	5%	1/4W
R604	1-249-418-11	CARBON	1.2K	5%	1/4W F
R609	1-247-807-31	CARBON	100	5%	1/4W
R620	1-249-429-11	CARBON	10K	5%	1/4W
R621	1-249-422-11	CARBON	2.7K	5%	1/4W F
R622	1-247-881-00	CARBON	120K	5%	1/4W
R623	1-249-442-11	CARBON	510	5%	1/4W
⚠R624	1-249-408-11	CARBON	180	5%	1/4W F
⚠R625	1-249-408-11	CARBON	180	5%	1/4W F
⚠R626	1-234-182-11	ENCAPSULATED COMPONENT			
R627	1-240-855-91	CARBON	6.2K	5%	1/4W
R628	1-249-425-11	CARBON	4.7K	5%	1/4W F
R629	1-247-866-11	CARBON	30K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R630	1-249-421-11	CARBON	2.2K	5%	1/4W F
R631	1-249-433-11	CARBON	22K	5%	1/4W
R632	1-249-437-11	CARBON	47K	5%	1/4W
⚠R633	1-249-393-11	CARBON	10	5%	1/4W F
R635	1-249-431-11	CARBON	15K	5%	1/4W
R636	1-249-433-11	CARBON	22K	5%	1/4W
R642	1-216-453-00	METAL OXIDE	270	5%	2W F (US)
R642	1-216-454-11	METAL OXIDE	390	5%	2W F (CND,AEP)
R643	1-249-433-11	CARBON	22K	5%	1/4W
R647	1-249-429-11	CARBON	10K	5%	1/4W
R648	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R649	1-249-393-11	CARBON	10	5%	1/4W F
R650	1-249-425-11	CARBON	4.7K	5%	1/4W F
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-439-11	CARBON	68K	5%	1/4W
R654	1-247-843-11	CARBON	3.3K	5%	1/4W
R655	1-249-409-11	CARBON	220	5%	1/4W F
R656	1-249-409-11	CARBON	220	5%	1/4W F
R657	1-249-429-11	CARBON	10K	5%	1/4W
⚠R658	1-249-393-11	CARBON	10	5%	1/4W F
R659	1-247-807-31	CARBON	100	5%	1/4W
R672	1-249-433-11	CARBON	22K	5%	1/4W
R680	1-249-429-11	CARBON	10K	5%	1/4W
R681	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R682	1-249-393-11	CARBON	10	5%	1/4W F
R690	1-249-433-11	CARBON	22K	5%	1/4W
R695	1-249-419-11	CARBON	1.5K	5%	1/4W F
R696	1-249-431-11	CARBON	15K	5%	1/4W
R739	1-215-868-00	METAL OXIDE	680	5%	1W F
R747	1-249-429-11	CARBON	10K	5%	1/4W
R748	1-249-425-11	CARBON	4.7K	5%	1/4W F
R789	1-215-868-00	METAL OXIDE	680	5%	1W F
R991	1-249-417-11	CARBON	1K	5%	1/4W F
R992	1-249-439-11	CARBON	68K	5%	1/4W
R993	1-249-433-11	CARBON	22K	5%	1/4W
R995	1-249-441-11	CARBON	100K	5%	1/4W
R996	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
RY501	1-515-920-11	RELAY (24V)			
RY502	1-515-920-11	RELAY (24V)			
RY601	1-515-920-11	RELAY (24V)			
RY602	1-515-793-11	RELAY			
RY681	1-515-793-11	RELAY			

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Ref. No.	Part No.	Description			Remarks
*	1-673-346-11	MUTING BOARD			
		**********			
		< LED >			
D101	8-719-313-45	LED SEL6810A-TH10 (MUTING)			
		< RESISTOR >			
R134	1-216-041-00	METAL CHIP	470	5%	1/10W
R135	1-216-045-00	METAL CHIP	680	5%	1/10W
R136	1-216-049-91	RES,CHIP	1K	5%	1/10W
		< SWITCH >			
S145	1-771-349-21	SWITCH, KEYBOARD (EQUALIZER)			
S146	1-771-349-21	SWITCH, KEYBOARD (BASS BOOST)			
S147	1-771-349-21	SWITCH, KEYBOARD (MUTING)			
**********					
	A-4419-390-A	REAR-AMP BOARD, COMPLETE (US,CND)			
		**********			
*	A-4419-391-A	REAR-AMP BOARD, COMPLETE (AEP)			
		**********			
		< CONNECTOR >			
C701	1-126-965-11	ELECT	22uF	20%	50V
C702	1-128-811-11	CERAMIC	150PF	5%	50V
C703	1-102-233-00	CERAMIC	33PF	10%	500V
C704	1-107-586-11	CERAMIC	6PF	0.5PF	500V
C705	1-126-934-11	ELECT	220uF	20%	10V
C706	1-106-351-00	MYLAR	2200PF	5%	200V
C707	1-106-351-00	MYLAR	2200PF	5%	200V
C708	1-109-876-11	FILM	0.033uF	10%	250V
C720	1-104-664-11	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C724	1-126-964-11	ELECT	10uF	20%	50V
C725	1-136-157-00	FILM	0.022uF	5%	50V
C726	1-136-153-00	FILM	0.01uF	5%	50V
C739	1-162-288-31	CERAMIC	330PF	10%	50V
C749	1-102-934-00	CERAMIC	1.0PF	0.25PF	50V
C751	1-126-965-11	ELECT	22uF	20%	50V
C752	1-128-811-11	CERAMIC	150PF	5%	50V
C753	1-102-233-00	CERAMIC	33PF	10%	500V
C754	1-107-586-11	CERAMIC	6PF	0.5PF	500V
C755	1-126-934-11	ELECT	220uF	20%	10V
C756	1-106-351-00	MYLAR	2200PF	5%	200V
C757	1-106-351-00	MYLAR	2200PF	5%	200V
C758	1-109-876-11	FILM	0.033uF	10%	250V
C770	1-104-664-11	ELECT	47uF	20%	16V
C771	1-107-597-11	CERAMIC	22PF	10%	500V
C772	1-107-597-11	CERAMIC	22PF	10%	500V
C773	1-162-286-31	CERAMIC	220PF	10%	50V
C775	1-136-157-00	FILM	0.022uF	5%	50V
C779	1-102-934-00	CERAMIC	1.0PF	0.25PF	50V
C780	1-128-809-11	CERAMIC	100PF	5%	50V
C789	1-162-288-31	CERAMIC	330PF	10%	50V
C798	1-128-560-11	ELECT	22uF	20%	100V
C799	1-128-560-11	ELECT	22uF	20%	100V

Ref. No.	Part No.	Description				
		< CONNECTOR >				
CNP701	1-785-102-11	PIN, CONNECTOR 4P				
CNP711	1-784-923-11	PIN, CONNECTOR 7P				
CNP712	1-785-102-21	PIN, CONNECTOR 4P				
CNP713	-784-924-11	PIN, CONNECTOR 8P				
		< DIODE >				
D701	8-719-911-19	DIODE 1SS133T-72				
D702	8-719-109-51	DIODE MTZJ-T-72-2.2				
D703	8-719-109-51	DIODE MTZJ-T-72-2.2				
D704	8-719-911-19	DIODE 1SS133T-72				
D705	8-719-911-19	DIODE 1SS133T-72				
D706	8-719-911-19	DIODE 1SS133T-72				
D749	8-719-911-19	DIODE 1SS133T-72				
D751	8-719-911-19	DIODE 1SS133T-72				
D752	8-719-109-51	DIODE MTZJ-T-72-2.2				
D753	8-719-109-51	DIODE MTZJ-T-72-2.2				
D754	8-719-911-19	DIODE 1SS133T-72				
D798	8-719-911-19	DIODE 1SS133T-72				
D799	8-719-911-19	DIODE 1SS133T-72				
		< IC >				
IC701	8-759-326-52	IC uPC2581V				
		< TRANSISTOR >				
Q704	8-729-119-76	TRANSISTOR 2SA1115TP-EF				
Q705	8-729-026-08	TRANSISTOR 2SC4495				
Q706	8-749-010-25	TRANSISTOR MN2488-OPY-M				
Q707	8-749-010-26	TRANSISTOR MP1620-OPY-M				
Q708	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA				
Q709	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2				
Q710	8-729-900-63	TRANSISTOR BN1F4M-TP				
Q754	8-729-119-76	TRANSISTOR 2SA1115TP-EF				
Q755	8-729-026-08	TRANSISTOR 2SC4495				
Q756	8-749-010-25	TRANSISTOR MN2488-OPY-M				
Q757	8-749-010-26	TRANSISTOR MP1620-OPY-M				
Q758	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA				
Q798	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA				
Q799	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA				
		< RESISTOR >				
R701	1-249-417-11	CARBON	1K	5%	1/4W	F
R702	1-247-881-00	CARBON	120K	5%	1/4W	
R703	1-249-439-11	CARBON	68K	5%	1/4W	
R704	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R705	1-247-807-31	CARBON	100	5%	1/4W	
R712	1-249-439-11	CARBON	68K	5%	1/4W	
R720	1-249-429-11	CARBON	10K	5%	1/4W	
R721	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R722	1-249-433-11	CARBON	22K	5%	1/4W	
R723	1-249-442-11	CARBON	510	5%	1/4W	
⚠R724	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R725	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R726	1-234-182-11	ENCAPSULATED COMPONENT				
R727	1-240-855-91	CARBON	6.2K	5%	1/4W	
R728	1-249-425-11	CARBON	4.7K	5%	1/4W	F

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Ref. No.	Part No.	Description			Remarks
R729	1-247-866-11	CARBON	30K	5%	1/4W
R730	1-249-421-11	CARBON	2.2K	5%	1/4W F
R731	1-249-433-11	CARBON	22K	5%	1/4W
R732	1-249-437-11	CARBON	47K	5%	1/4W
⚠R733	1-249-393-11	CARBON	10	5%	1/4W F
R735	1-249-431-11	CARBON	15K	5%	1/4W
⚠R749	1-249-393-11	CARBON	10	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-247-881-00	CARBON	120K	5%	1/4W
R753	1-249-439-11	CARBON	68K	5%	1/4W
R754	1-249-418-11	CARBON	1.2K	5%	1/4W F
R755	1-247-807-31	CARBON	100	5%	1/4W
R762	1-249-439-11	CARBON	68K	5%	1/4W
R770	1-249-429-11	CARBON	10K	5%	1/4W
R771	1-249-422-11	CARBON	2.7K	5%	1/4W F
R772	1-249-433-11	CARBON	22K	5%	1/4W
R773	1-249-442-11	CARBON	510	5%	1/4W
⚠R774	1-249-408-11	CARBON	180	5%	1/4W F
⚠R775	1-249-408-11	CARBON	180	5%	1/4W F
⚠R776	1-234-182-11	ENCAPSULATED COMPONENT			
R777	1-240-855-91	CARBON	6.2K	5%	1/4W
R778	1-249-425-11	CARBON	4.7K	5%	1/4W F
R782	1-249-437-11	CARBON	47K	5%	1/4W
⚠R783	1-249-393-11	CARBON	10	5%	1/4W F
R790	1-249-433-11	CARBON	22K	5%	1/4W
R795	1-249-419-11	CARBON	1.5K	5%	1/4W F
R796	1-249-431-11	CARBON	15K	5%	1/4W
R798	1-249-419-11	CARBON	1.5K	5%	1/4W F
R799	1-249-431-11	CARBON	15K	5%	1/4W
		< RELAY >			
RY701	1-515-920-11	RELAY (24V)			

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*	1-673-348-11	ROTARY BOARD			
		**********			
		< CONNECTOR >			
* CNP155	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< VARIABLE RESISTOR >			
RV101	1-467-808-11	ENCODER, ROTARY (JOG DIAL)			
		< CONNECTOR >			
* TP701	1-560-060-00	PIN, CONNECTOR 2P			
* TP751	1-560-060-00	PIN, CONNECTOR 2P			

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*	1-673-355-11	SP BOARD			
		*********			
		< CAPACITOR >			
CC41	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
CC42	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
CC43	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
CC47	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
CC97	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
CC251	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remarks
		< JACK >			
JJ103	1-774-819-11	JACK, PIN 2P (WOOFER)			
		< COIL >			
L601	1-420-872-00	COIL, AIR-CORE (US, CND)			
L701	1-420-872-00	COIL, AIR-CORE (US, CND)			
L751	1-420-872-00	COIL, AIR-CORE (US, CND)			
		< RESISTOR >			
R634	1-249-389-11	CARBON	4.7	5%	1/4W F
R734	1-249-389-11	CARBON	4.7	5%	1/4W F
R784	1-249-389-11	CARBON	4.7	5%	1/4W F
RR251	1-216-049-91	RES,CHIP	1K	5%	1/10W
		< TERMINAL BOARD >			
TM501	1-694-529-11	TERMINAL BOARD (SP)			
TM701	1-694-528-11	TERMINAL BOARD (SPEAKER) (6P)			

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*	1-673-347-11	SP-SW BOARD			
		**********			
		< DIODE >			
D120	8-719-016-74	DIODE 1SS352-TPH3			
D121	8-719-016-74	DIODE 1SS352-TPH3			
		< SWITCH >			
S150	1-771-349-21	SWITCH, KEYBOARD (POWER)			
S151	1-762-268-11	SWITCH, ROTARY (SPEAKERS)			

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	A-4419-404-A	SW BOARD, COMPLETE (US,CND)			
		**********			
*	A-4419-405-A	SW BOARD, COMPLETE (AEP)			
		**********			
		< CAPACITOR >			
C151	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C152	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C153	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C154	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C155	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C156	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C158	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C159	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C160	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CNS110	1-770-399-11	HOUSING, CONNECTOR(PC BOARD)6P			
CNS111	1-770-399-11	HOUSING, CONNECTOR(PC BOARD)6P			
		< LED >			
D151	8-719-063-91	LED SLR325DC-P-T32 (LEVEL)			
D152	8-719-063-91	LED SLR325DC-P-T32 (SUR)			
D154	8-719-032-98	LED SEL5820A-TP15 (A.F.D.)			
D155	8-719-063-91	LED SLR325DC-P-T32 (MD/TAPE)			
D156	8-719-032-98	LED SEL5820A-TP15 (2CH)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
D157	8-719-063-91	LED SLR325DC-P-T32 (SET UP)			
D158	8-719-063-91	LED SLR325DC-P-T32 (EQ)			
D159	8-719-063-91	LED SLR325DC-P-T32 (5.1CH INPUT)			
D160	8-719-063-91	LED SLR325DC-P-T32 (PHONO)			
D161	8-719-063-91	LED SLR325DC-P-T32 (TUNER)			
D162	8-719-063-91	LED SLR325DC-P-T32 (CD)			
D164	8-719-073-95	LED SPR-335MDTT31 (VIDEO 1)			
D165	8-719-073-95	LED SPR-335MDTT31 (VIDEO 2)			
D167	8-719-073-95	LED SPR-335MDTT31 (DVD/LD)			
D168	8-719-073-95	LED SPR-335MDTT31 (TV/SAT)			
D169	8-719-063-91	LED SLR325DC-P-T32 (NAME)			
D170	8-719-032-98	LED SEL5820A-TP15 (MODE)			
		< IC >			
IC106	8-759-373-50	IC NJU3719L			
		< RESISTOR >			
R100	1-216-089-91	RES,CHIP	47K	5%	1/10W
R151	1-216-037-00	METAL CHIP	330	5%	1/10W
R152	1-216-041-00	METAL CHIP	470	5%	1/10W
R153	1-216-045-00	METAL CHIP	680	5%	1/10W
R154	1-216-049-91	RES,CHIP	1K	5%	1/10W
R155	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R156	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R157	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R158	1-216-037-00	METAL CHIP	330	5%	1/10W
R159	1-216-041-00	METAL CHIP	470	5%	1/10W
R160	1-216-045-00	METAL CHIP	680	5%	1/10W
R161	1-216-049-91	RES,CHIP	1K	5%	1/10W
R162	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R163	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R164	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R165	1-216-037-00	METAL CHIP	330	5%	1/10W
R166	1-216-041-00	METAL CHIP	470	5%	1/10W
R167	1-216-045-00	METAL CHIP	680	5%	1/10W
R168	1-216-049-91	RES,CHIP	1K	5%	1/10W
R169	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R170	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R171	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R172	1-216-037-00	METAL CHIP	330	5%	1/10W
R173	1-216-041-00	METAL CHIP	470	5%	1/10W
R174	1-216-045-00	METAL CHIP	680	5%	1/10W
R175	1-216-049-91	RES,CHIP	1K	5%	1/10W (AEP)
R176	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (AEP)
R178	1-216-037-00	METAL CHIP	330	5%	1/10W
R179	1-216-041-00	METAL CHIP	470	5%	1/10W
R180	1-216-045-00	METAL CHIP	680	5%	1/10W
R181	1-216-049-91	RES,CHIP	1K	5%	1/10W
R182	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R183	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R184	1-216-037-00	METAL CHIP	330	5%	1/10W
R185	1-216-041-00	METAL CHIP	470	5%	1/10W
R186	1-216-045-00	METAL CHIP	680	5%	1/10W
R187	1-216-049-91	RES,CHIP	1K	5%	1/10W
R188	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
RR61	1-216-037-00	METAL CHIP	330	5%	1/10W
RR62	1-216-029-00	METAL CHIP	150	5%	1/10W
RR63	1-216-037-00	METAL CHIP	330	5%	1/10W
RR64	1-216-025-91	RES,CHIP	100	5%	1/10W
RR65	1-216-029-00	METAL CHIP	150	5%	1/10W
RR66	1-216-025-91	RES,CHIP	100	5%	1/10W
RR67	1-216-029-00	METAL CHIP	150	5%	1/10W
RR70	1-216-025-91	RES,CHIP	100	5%	1/10W
RR71	1-216-029-00	METAL CHIP	150	5%	1/10W
RR72	1-216-025-91	RES,CHIP	100	5%	1/10W
RR73	1-216-029-00	METAL CHIP	150	5%	1/10W
RR74	1-216-037-00	METAL CHIP	330	5%	1/10W
RR75	1-216-037-00	METAL CHIP	330	5%	1/10W
		< SWITCH >			
S101	1-771-349-21	SWITCH, KEYBOARD (1)			
S102	1-771-349-21	SWITCH, KEYBOARD (2)			
S103	1-771-349-21	SWITCH, KEYBOARD (3)			
S104	1-771-349-21	SWITCH, KEYBOARD (4)			
S105	1-771-349-21	SWITCH, KEYBOARD (5)			
S106	1-771-349-21	SWITCH, KEYBOARD (6)			
S107	1-771-349-21	SWITCH, KEYBOARD (7)			
S108	1-771-349-21	SWITCH, KEYBOARD (8)			
S109	1-771-349-21	SWITCH, KEYBOARD (9)			
S110	1-771-349-21	SWITCH, KEYBOARD (0)			
S111	1-771-349-21	SWITCH, KEYBOARD (MEMORY)			
S112	1-771-349-21	SWITCH, KEYBOARD (DIRECT)			
S113	1-771-349-21	SWITCH, KEYBOARD (PRESET/PTY SELECT+)			
S114	1-771-349-21	SWITCH, KEYBOARD (SUR)			
S115	1-771-349-21	SWITCH, KEYBOARD (FM MODE)			
S116	1-771-349-21	SWITCH, KEYBOARD (RDSEON)			
S117	1-771-349-21	SWITCH, KEYBOARD (FM/AM)			
S118	1-771-349-21	SWITCH, KEYBOARD (A.F.D.)			
S119	1-771-349-21	SWITCH, KEYBOARD (SET UP)			
S120	1-771-349-21	SWITCH, KEYBOARD (MD/TAPE)			
S121	1-771-349-21	SWITCH, KEYBOARD (VIDEO 1)			
S122	1-771-349-21	SWITCH, KEYBOARD (VIDEO 2)			
S123	1-771-349-21	SWITCH, KEYBOARD (CD)			
S125	1-771-349-21	SWITCH, KEYBOARD (RDS PTY)(AEP)			
S127	1-771-349-21	SWITCH, KEYBOARD (TUNER)			
S128	1-771-349-21	SWITCH, KEYBOARD (TV/LD)			
S129	1-771-349-21	SWITCH, KEYBOARD (DVD)			
S130	1-771-349-21	SWITCH, KEYBOARD (PHON0)			
S131	1-771-349-21	SWITCH, KEYBOARD (INPUT MODE)			
S132	1-771-349-21	SWITCH, KEYBOARD (5.1CH INPUT)			
S133	1-771-349-21	SWITCH, KEYBOARD (EQ)			
S134	1-771-349-21	SWITCH, KEYBOARD (MODE)			
S135	1-771-349-21	SWITCH, KEYBOARD (2CH)			
S136	1-771-349-21	SWITCH, KEYBOARD (>)			
S137	1-771-349-21	SWITCH, KEYBOARD (<)			
S138	1-771-349-21	SWITCH, KEYBOARD (NAME)			
S139	1-771-349-21	SWITCH, KEYBOARD (ENTER)			
S140	1-771-349-21	SWITCH, KEYBOARD (SHIFT)			
S141	1-771-349-21	SWITCH, KEYBOARD (TUNING CHAR –)			
S142	1-771-349-21	SWITCH, KEYBOARD (TUNING CHAR +)			
S143	1-771-349-21	SWITCH, KEYBOARD (PRESET/PTY SELECT –)			
S144	1-771-349-21	SWITCH, KEYBOARD (LEVEL)			

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S-VIDEO TUNER VIDEO VOLUME

Ref. No.	Part No.	Description			Remarks
*	1-673-357-11	S-VIDEO BOARD			
		**********			
		< CAPACITOR >			
C214	1-104-664-11	ELECT	47uF	20%	16V
C264	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CNS211	1-695-094-11	SOCKET, CONNECTOR 11P			
CNS215	1-784-776-11	CONNECTOR, FFC 15P			
		< IC >			
IC202	8-759-245-79	IC M5F7905L			
**********					
*	1-673-358-11	TUNER BOARD			
		**********			
		< CAPACITOR >			
C1	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (AEP)
C2	1-126-961-11	ELECT	2.2uF	20%	50V (AEP)
C3	1-126-964-11	ELECT	10uF	20%	50V (AEP)
C4	1-165-319-11	CERAMIC CHIP	0.1uF	50V (AEP)	
C5	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (AEP)
C6	1-163-249-11	CERAMIC CHIP	82PF	5%	50V (AEP)
C7	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (AEP)
C381	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C382	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C399	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CNS303	1-569-306-11	SOCKET, CONNECTOR (L TYRE) 15P			
CNS305	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P			
		< IC >			
IC1	8-759-557-36	IC BU1924F-E2 (AEP)			
IC399	8-759-708-12	IC NJM78L12A-T3			
		< COIL >			
L1	1-408-982-11	INDUCTOR	100uH (AEP)		
		< RESISTOR >			
R1	1-216-025-91	RES,CHIP	100	5%	1/10W (AEP)
R2	1-216-025-91	RES,CHIP	100	5%	1/10W (AEP)
R3	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (AEP)
		< VIBRATOR >			
X1	1-579-900-21	VIBRATOR, CRYSTAL (4.33MHz)(AEP)			
**********					

Ref. No.	Part No.	Description			Remarks
*	1-673-356-11	VIDEO BOARD			
		**********			
		< CAPACITOR >			
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V
C203	1-126-964-11	ELECT	10uF	20%	50V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C206	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C207	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C208	1-126-964-11	ELECT	10uF	20%	50V
C209	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C212	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C213	1-104-664-11	ELECT	47uF	20%	16V
C215	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C216	1-104-664-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CNS212	1-695-094-11	SOCKET, CONNECTOR 11P			
		< DIODE >			
D201	8-719-801-78	DIODE 1SS184-TE85L			
		< IC >			
IC201	8-759-536-24	IC NJM-2296M-TE2			
		< JACK >			
J201	1-785-867-11	JACK, PIN 1P (MONITOR)			
J202	1-785-866-11	JACK, PIN 3P (DVD/VIDEO2)			
J203	1-785-866-11	JACK, PIN 3P (VIDEO 2/VIDEO 1)			
J204	1-563-330-11	JACK (S-LINK)			
		< RESISTOR >			
R201	1-216-022-00	METAL CHIP	75	5%	1/10W
R202	1-216-022-00	METAL CHIP	75	5%	1/10W
R203	1-216-022-00	METAL CHIP	75	5%	1/10W
R204	1-216-022-00	METAL CHIP	75	5%	1/10W
R205	1-216-022-00	METAL CHIP	75	5%	1/10W
R206	1-216-022-00	METAL CHIP	75	5%	1/10W
R207	1-216-022-00	METAL CHIP	75	5%	1/10W
R208	1-216-022-00	METAL CHIP	75	5%	1/10W
**********					
*	A-4419-407-A	VOLUME BOARD, COMPLETE (US,CND)			
		**********			
	A-4426-060-A	VOLUME BOARD, COMPLETE (AEP)			
		**********			
		< CAPACITOR >			
C401	1-126-966-11	ELECT	33uF	20%	16V
C402	1-126-966-11	ELECT	33uF	20%	16V
C410	1-126-965-11	ELECT	22uF	20%	50V
C411	1-126-965-11	ELECT	22uF	20%	50V
C412	1-126-965-11	ELECT	22uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C413	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C414	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C415	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C421	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C422	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C423	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C460	1-126-965-11	ELECT	22uF	20%	50V
C461	1-126-965-11	ELECT	22uF	20%	50V
C462	1-126-965-11	ELECT	22uF	20%	50V
C463	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C464	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C465	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C471	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C472	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C473	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
		< CONNECTOR >			
CNP101	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P			
		< IC >			
IC408	8-759-636-55	IC M5218AFP-T1			
IC409	8-759-636-55	IC M5218AFP-T1			
IC410	8-759-636-55	IC M5218AFP-T1			
		< RESISTOR >			
R413	1-216-097-91	RES,CHIP	100K	5%	1/10W
R414	1-216-097-91	RES,CHIP	100K	5%	1/10W
R415	1-216-097-91	RES,CHIP	100K	5%	1/10W
R416	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R417	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R418	1-216-089-91	RES,CHIP	47K	5%	1/10W
R419	1-216-089-91	RES,CHIP	47K	5%	1/10W
R420	1-216-089-91	RES,CHIP	47K	5%	1/10W
R421	1-216-089-91	RES,CHIP	47K	5%	1/10W
R463	1-216-097-91	RES,CHIP	100K	5%	1/10W
R464	1-216-097-91	RES,CHIP	100K	5%	1/10W
R465	1-216-097-91	RES,CHIP	100K	5%	1/10W
R466	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R467	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R468	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R469	1-216-089-91	RES,CHIP	47K	5%	1/10W
R470	1-216-089-91	RES,CHIP	47K	5%	1/10W
R471	1-216-089-91	RES,CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV401	1-225-776-11	RES, VAR, CARBON 100K/100KX5 (MASTER VOLUME)			

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Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
⚠57	1-769-743-11	CORD, POWER (CND)	
⚠57	1-769-744-11	CORD, POWER (AEP)	
⚠57	1-783-531-11	CORD, POWER (US)	
64	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)	
66	1-773-048-11	WIRE (FLAT TYPE) (17 CORE)	
67	1-773-112-11	WIRE (FLAT TYPE) (19 CORE)	
⚠T902	1-433-771-11	TRANSFORMER, POWER (AEP)	
⚠T902	1-433-884-11	TRANSFORMER, POWER (US)	
⚠T902	1-433-885-11	TRANSFORMER, POWER (CND)	
TU301	1-693-407-11	TUNER (US,CND)	
TU301	1-693-409-11	TUNER (AEP)	

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		ACCESORIES	
		**********	
	1-501-594-11	ANTENNA (FM)	
	1-501-721-11	ANTENNA (LOOP)	
	3-866-296-11	MANUAL, INSTRUCTION (RM-PP402) (ENGLISH)	
	3-866-296-21	MANUAL, INSTRUCTION (RM-PP402) (FRENCH,SPANISH) (CND,AEP)	
	3-866-296-41	MANUAL, INSTRUCTION (RM-PP402) (DUTCH,SWEDISH,GERMAN,ITALIAN,PORTUGUESE) (AEP)	
	3-866-296-51	MANUAL, INSTRUCTION(RM-PP402) (DANISH,FINNISH) (AEP)	
	3-866-670-11	MANUAL,COMMONNESS INSTRUCTION (ENGLISH) (US)	
	3-866-670-21	MANUAL,COMMONNESS INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH) (CND,AEP)	
	3-866-970-11	MANUAL, INSTRUCTION(ENGLISH) (US,CND)	
	3-866-970-21	MANUAL, INSTRUCTION(FRENCH) (CND)	
	3-866-970-31	MANUAL, INSTRUCTION (ENGLISH,FRENCH,DUTCH,SWEDISH) (AEP)	
	3-866-970-41	MANUAL, INSTRUCTION (GERMAN,SPANISH,ITALIAN,PORTUGUESE) (AEP)	
	3-866-970-51	MANUAL, INSTRUCTION(DANISH,FINNISH) (AEP)	
	4-987-977-01	COVER BATTERY(FOR RM-PP402)	
	8-917-666-90	REMOTE COMMANDER(RM-PP402)	

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		HARDWARE LIST	
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#1	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 IT-3	
#2	7-685-881-09	SCREW +BVTT 4 × 8 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-928-897-11

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